

**CALIFORNIA  
MOTOR VEHICLE STOCK, TRAVEL AND FUEL  
FORECAST**



**California Department of Transportation  
Transportation System Information Program**

**November 1998**

**CALIFORNIA  
MOTOR VEHICLE STOCK, TRAVEL AND FUEL  
FORECAST**

**CALIFORNIA DEPARTMENT OF TRANSPORTATION  
TRANSPORTATION SYSTEM INFORMATION PROGRAM**

**NOVEMBER 1998**

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Federal Highway Administration

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### **Conversion Factors**

The following factors are used in this report to convert U.S. units to metric units.

$$\text{Kilometers} = 1.609 \times \text{Miles}$$

$$\text{Liters} = 3.785 \times \text{Gallons}$$

## I. SUMMARY

This is the fourteenth of a series of California Motor Vehicle Stock, Travel and Fuel Forecast (MVSTAFF) reports. The reports provide historical estimates and forecasts of the number of registered vehicles, miles of travel, fuel consumption, and fuel economy on a statewide basis. The forecasts are disaggregated into six vehicle body types (autos, four weight classes of trucks, and motorcycles) and two fuel types (gasoline and diesel).

The forecasts are primarily intended for short and long range statewide transportation planning, traffic forecasting and projections of revenues from excise taxes on fuel. In response to numerous requests, the statewide vehicle miles of travel (VMT) forecasts are distributed among the 58 counties and two major road systems (State Highways and all "Other" public roads) for substate planning, including transportation and air quality modeling and analysis. For the purpose of air quality conformity analysis the 1990 county VMT table is included in the appendix. Also included in this report are the vehicle fuel consumption (VFC) distributions by the 58 counties and the two-fuel types gasoline and diesel.

The MVSTAFF process requires long-term projections of statewide population, economic growth (total personal income), fuel prices, inflation, and interest rates. For this forecast, population numbers were obtained from the latest California Department of Finance (DOF) population projection reports (Ref. 4 and 5) and personal income estimates were from the UCLA Anderson Forecast. Projections of all other economic variables, including fuel price, were derived from the WEFA Group, "U.S. Long-Term Economic Outlook, 3rd Quarter 1998" (Ref. 7). The WEFA Group projections represent a "trend/moderate growth" scenario. The MVSTAFF forecast, therefore, reflects the same scenario superimposed on the DOF population projections and the existing legislation regarding current and future sales and excise taxes on fuel. The socioeconomic assumptions are further documented in the report.

The forecast results are summarized in Figure-S1. For the current year (1998), total vehicle miles of travel (VMT), and vehicle fuel consumption (VFC) are projected to increase by 2.50%, and 2.39%, respectively, from the previous year.

In 1999, the economy is expected to rise moderately. Real total personal income per person, total vehicles, VMT and fuel consumption are projected to increase by 2.02%, 2.30%, 2.40% and 2.05% respectively.

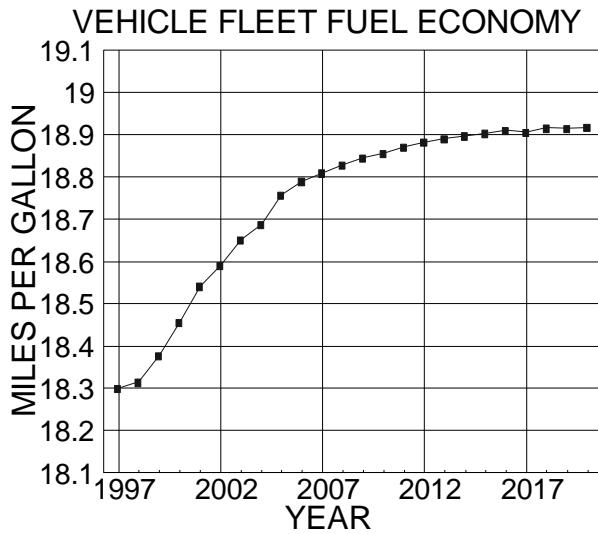
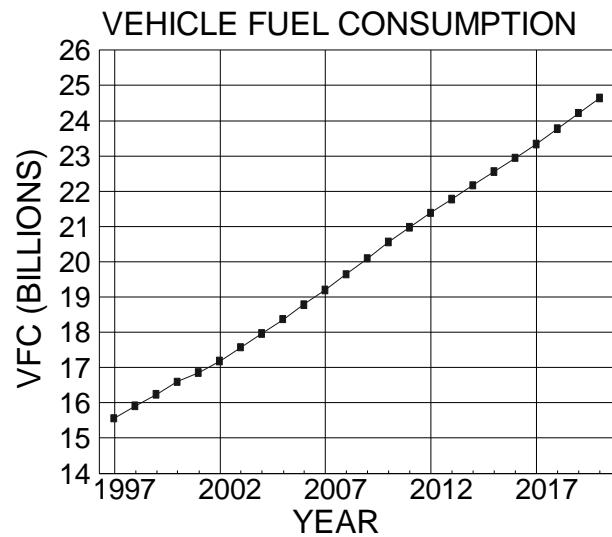
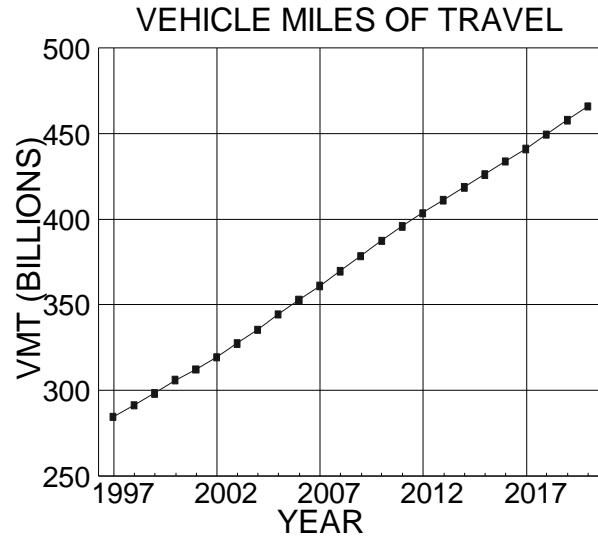
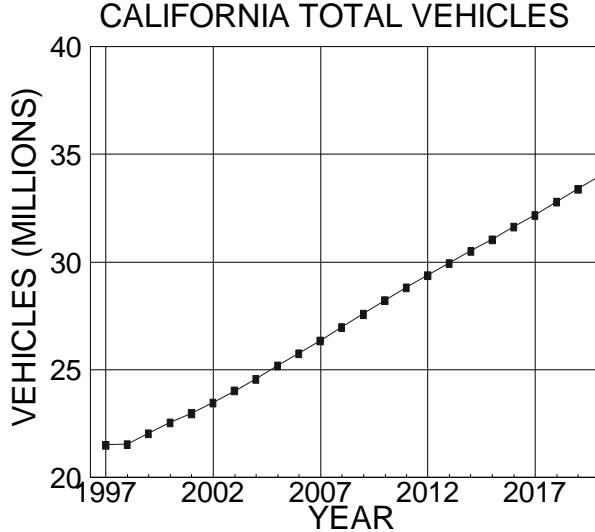
The long-term forecast is for total vehicles, vehicle travel, and fuel consumption to continue to increase but at declining rates. Under the assumption that the Corporate Average Fuel Economy (CAFE) standard for new cars will remain at 27.5 miles per gallon, and the projected increase in the proportion of heavy duty truck travel, the fleet fuel economy will reach a peak value of 18.92 miles per gallon by year 2020.

Past and projected growth in California vehicle miles of travel are affected by: population, real total personal income per person (IPP), vehicles per person (VPP), and the fuel cost per mile (FCPM) of travel, all of which are put in a historical perspective in Figure-S2. The figure shows the percent change in the variables, from the beginning of one decade to the next, for the past 50 years and the 20-year forecast period. The following can be noted from the figure:

- The decade of the 1950's experienced a 71% increase in VMT which was driven primarily by a 49% increase in population and helped along with moderate increases in per capita total personal income and vehicle ownership.
- The 1960's saw a 64% increase in VMT although population grew at about half the rate that it did in the 1950's (26% vs. the previous 49%). The driving force in the 1960's would appear to be the growth in per capita income and vehicle ownership, the highest in the 50-year history.
- The 1970's produced the smallest percentage increase in VMT (38%) as compared with the previous two decades. This was the result of a lower percentage increase in population (18%), a slower growing economy and sharply rising fuel prices (55%) in the last half of the decade.
- In the 1980's, VMT grew by 62%, rivaling its growth in the 1950's and 1960's. At the same time per capita income and vehicle ownership grew by only 12% and 7%, respectively. Most of the growth in VMT in the 1980's can therefore be attributed to strong population gains (26%) and the precipitous drop in the real fuel cost per mile of travel (57%), resulting from a 45% drop in the real price of fuel and a 30% increase in the on-road fleet fuel economy.
- In the 1990's, VMT is estimated to grow but at greatly reduced rate of 19% as population growth slows down to 15%, personal income shows small (9%) growth. Fuel cost per mile drops 7% with increasing fuel efficiency and decreasing fuel prices in constant dollars.
- In the 2000's and 2010's VMT is forecasted to grow moderately (27% and 20%) as population growth rates increase slightly over the 1990's (18% and 16%), personal income increase moderately (15% and 12%). Fuel cost per mile has a small increase of only 8 percent in the 20-year period.

Estimates of total system and state highway system vehicle miles of travel for the period 1965-2020 are shown in Figure-S3. Estimates of gasoline, diesel and total fuel consumption for the years 1965-2020 are shown in Figure-S4.

Figure-S1  
**Motor Vehicle Stock, Travel and Fuel Forecast**

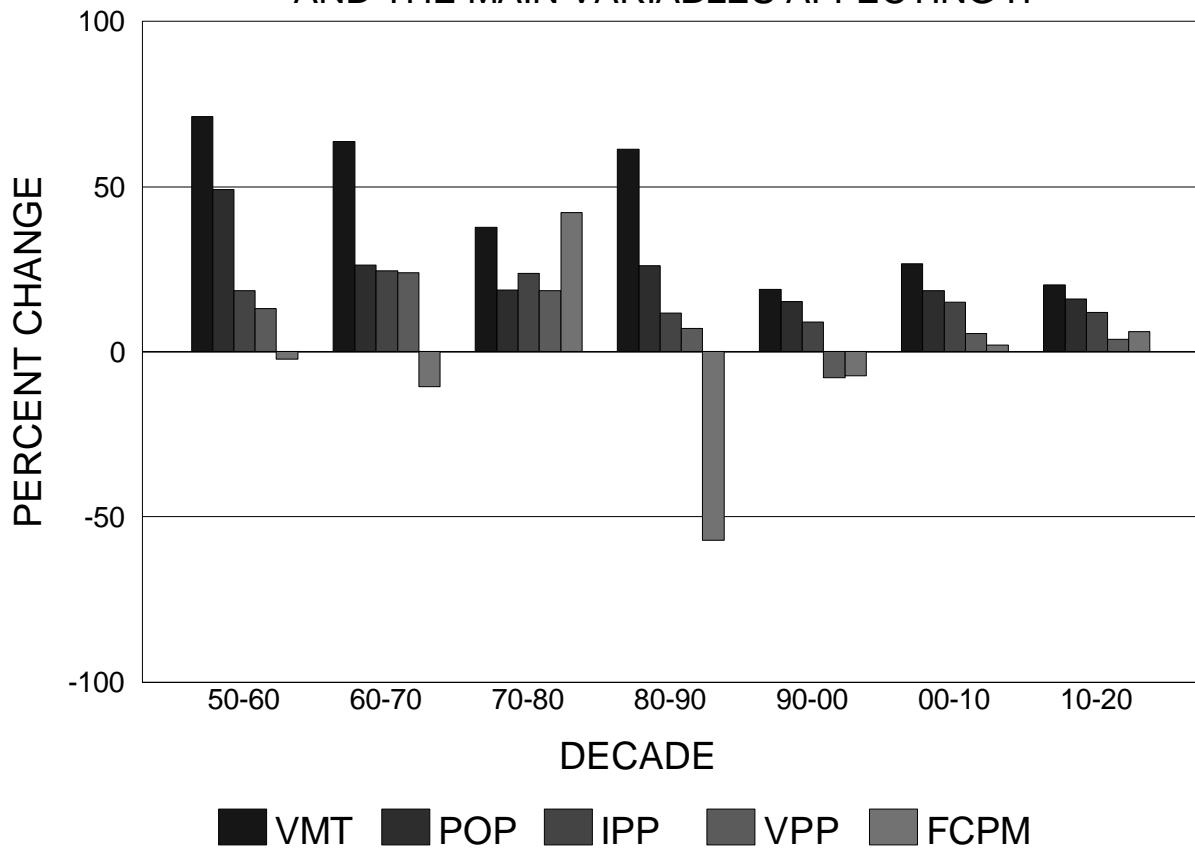


**CALIFORNIA TOTAL VEHICLES, VMT, FUEL AND MPG FORECAST**

| YEAR | VEH   | VMT   | VFC   | MPG   | YEAR | VEH   | VMT   | VFC   | MPG   |
|------|-------|-------|-------|-------|------|-------|-------|-------|-------|
| 1997 | 21.51 | 284.8 | 15.56 | 18.30 | 2009 | 27.59 | 379.3 | 20.13 | 18.85 |
| 1998 | 21.55 | 291.9 | 15.94 | 18.32 | 2010 | 28.24 | 388.4 | 20.60 | 18.86 |
| 1999 | 22.05 | 299.0 | 16.26 | 18.38 | 2011 | 28.83 | 396.7 | 21.02 | 18.87 |
| 2000 | 22.56 | 306.8 | 16.62 | 18.46 | 2012 | 29.40 | 404.5 | 21.42 | 18.89 |
| 2001 | 22.99 | 313.1 | 16.88 | 18.55 | 2013 | 29.96 | 412.2 | 21.82 | 18.89 |
| 2002 | 23.47 | 320.1 | 17.22 | 18.60 | 2014 | 30.51 | 419.6 | 22.20 | 18.90 |
| 2003 | 24.03 | 328.3 | 17.60 | 18.66 | 2015 | 31.07 | 427.1 | 22.59 | 18.91 |
| 2004 | 24.59 | 336.3 | 17.99 | 18.69 | 2016 | 31.63 | 434.8 | 22.99 | 18.91 |
| 2005 | 25.19 | 345.2 | 18.40 | 18.76 | 2017 | 32.18 | 442.0 | 23.38 | 18.91 |
| 2006 | 25.77 | 353.6 | 18.82 | 18.79 | 2018 | 32.79 | 450.4 | 23.81 | 18.92 |
| 2007 | 26.36 | 361.9 | 19.24 | 18.81 | 2019 | 33.40 | 458.9 | 24.26 | 18.92 |
| 2008 | 26.97 | 370.6 | 19.68 | 18.83 | 2020 | 34.00 | 467.1 | 24.68 | 18.92 |

Figure-S2

PERCENT CHANGE BY DECADE IN ANNUAL VMT  
AND THE MAIN VARIABLES AFFECTING IT



VMT: Vehicle Miles of Travel

POP: Population

IPP: Total Personal Income Per Person (67\$)

VPP: Vehicles Per Person

FCPM: Fuel Cost Per Mile (67\$)

Figure-S3  
CALIFORNIA TOTAL VEHICLE MILES OF TRAVEL (1965 - 2020)

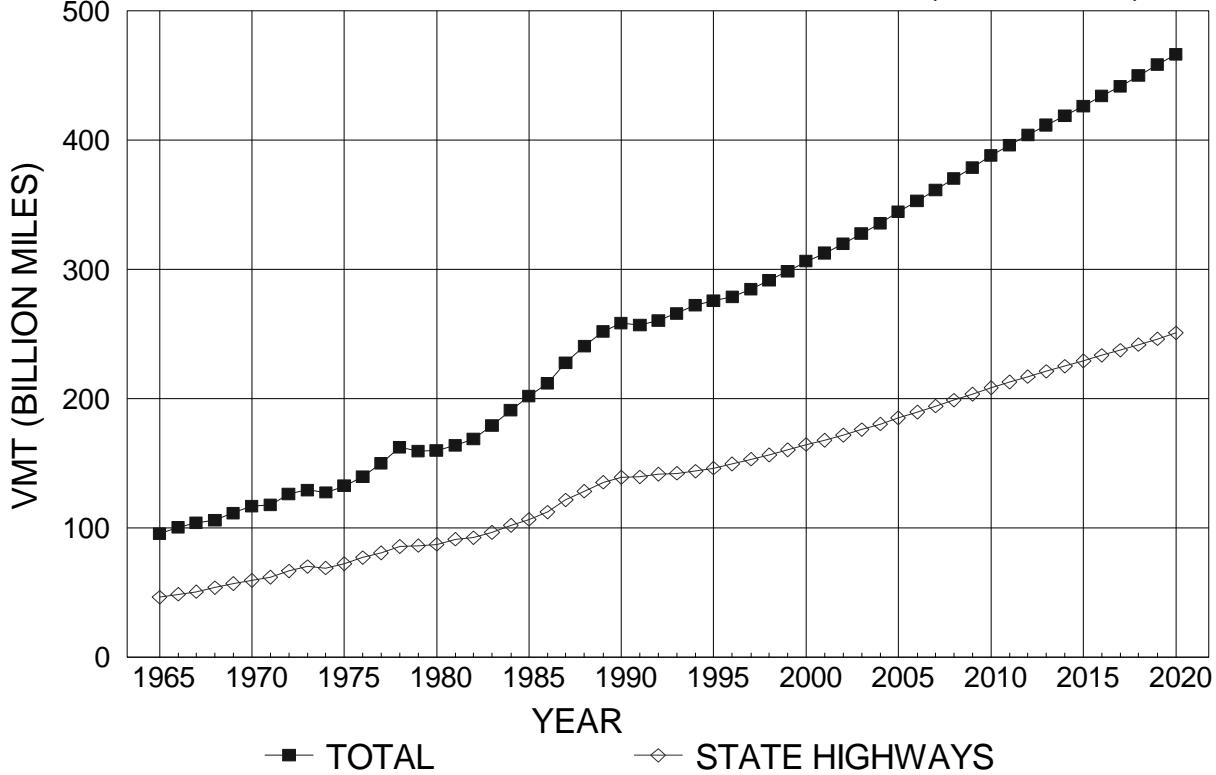
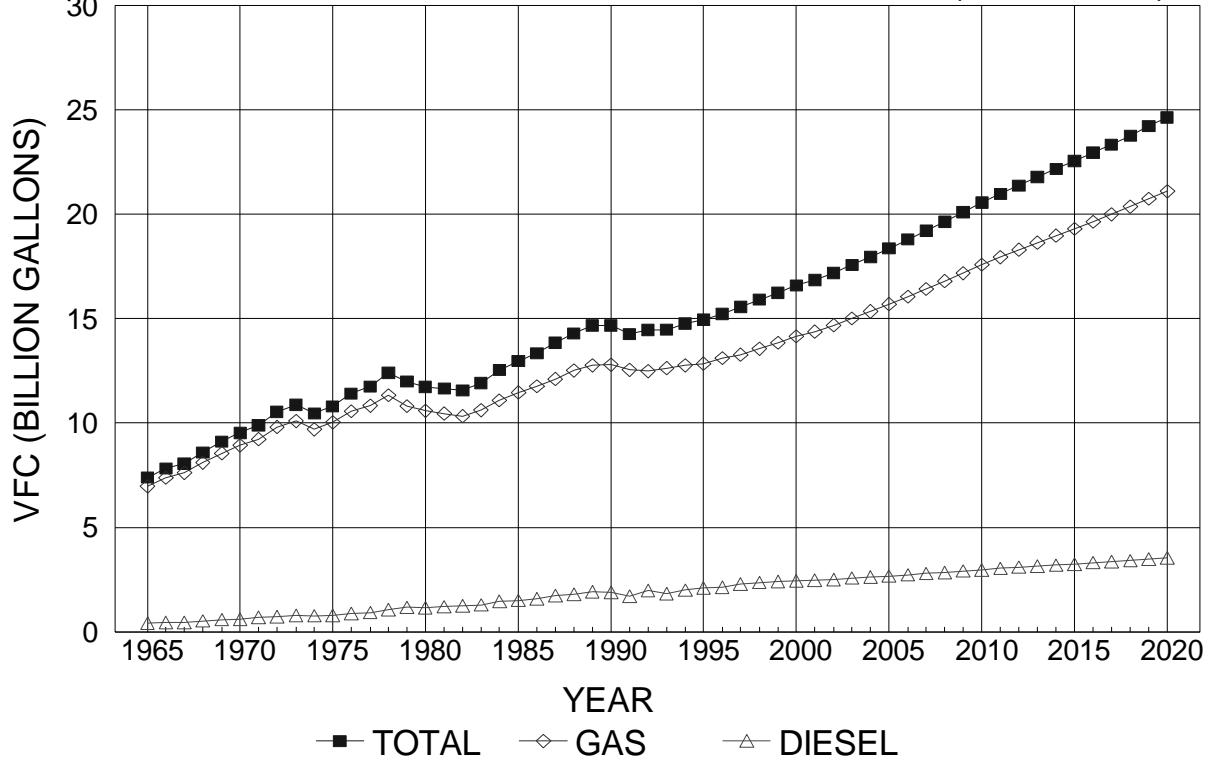


Figure-S4  
CALIFORNIA TOTAL VEHICLE FUEL CONSUMPTION (1965 - 2020)



## II. INTRODUCTION

The California Department of Transportation utilizes estimates and forecasts of statewide vehicle miles of travel (VMT) and vehicle fuel consumption (VFC) for a number of planning and reporting purposes. For example, estimates of VMT are needed annually for the FHWA-mandated Highway Performance Monitoring System (HPMS) program, and as input to the California Highway Patrol annual reporting system. Intermediate and long-term forecasts of VMT and VFC are used for system planning, projections of revenues from excise taxes on fuels, and air quality and energy conservation programs. To ensure that the forecasts are produced with appropriate, consistent and state-of-the-art methodologies, the Transportation System Information Program has developed the California Motor Vehicle Stock, Travel and Fuel Forecast (MVSTAFF) process which it updates on a continuous basis. The results of applying the process are reported in the MVSTAFF Report, which has been published annually since 1984, except for 1990.

The forecasts are based on socioeconomic data developed by the Office of Travel Forecasting and Analysis of the Transportation System Information Program using the latest California Department of Finance population projections (Ref. 4 & 5) and economic projections from the WEFA Group (Ref. 7) and the UCLA Anderson Forecast (Ref.3). These forecasts are primarily intended for use at the statewide level. However, the statewide total VMT forecasts have been allocated down to the county level in response to numerous requests for data at a substate level for transportation and air quality modeling and analysis.

The remaining sections of the report follow the outline listed below:

- An overview of the MVSTAFF process.
- A brief description of the socioeconomic projections which drive the forecasting process.
- A brief description of the forecast results.
- An appendix gives the county VMT (Appendix B) and VFC (Appendix C) distribution based on statewide forecasts. The statewide VMTs are distributed to the 58 counties by State Highways and all "Other" public roads and the statewide VFCs are distributed to the 58 counties by gasoline fuel and diesel fuel.

### III. MVSTAFF PROCESS OVERVIEW

The MVSTAFF process is a recursive procedure, which estimates, for each year of the forecast period, the following:

- The motor vehicle stock (average number of currently registered vehicles) by six body types, two fuel types, and 25 model years or age groups.
- The fuel economy of the total fleet and each model year fleet.
- The vehicle travel and fuel consumption for the total fleet and each model year fleet.

The process consists of four major parts, which are outlined in Figure-1 and briefly described below.

#### 1. Inventories

- Base year estimates and future year projections of the socioeconomic variables which are assumed to be the causative factors for acquiring vehicles and generating travel; base year fuel consumption; and explicit assumptions about new vehicle fuel economy.
- The base year vehicle stock stratified by vehicle type and model year, and derived estimates of the on-road fuel economy of each stratum of vehicles in the base year fleet.

#### 2. The Stratified Rate Model

- When applied to the base year inventory, this model estimates base year vehicle travel, fuel consumption and fuel economy for each vehicle type and the total fleet.
- When applied in the forecasting mode, the Stratified Rate Model first updates the composition and fuel economy of the fleet by one year and then estimates the next year's stratified fleet, vehicle travel, fuel consumption and fuel economy.
- Imbedded in the Stratified Rate Model are submodels which forecast the total number of vehicles by vehicle type, new vehicles, in-migration vehicles, and scrappage of old vehicles and the fuel economy of new vehicles under explicit socioeconomic assumptions.

#### 3. The Statewide Aggregate VMT and VFC Model

- This model accepts the vehicle fleet fuel economy from the Stratified Rate Model and socioeconomic data from the inventory. It estimates next year's statewide total VMT and VFC without regard to vehicle body type. Because the Aggregate Model is more directly linked to socioeconomic variables, the VMT forecasts from the model are used as control totals for the forecast years.

#### 4. A Comparison/Adjustment Model

- This model compares and adjusts the total VMT and VFC from the Stratified Rate Model to match that from the Aggregate Model. As part of the comparison/adjustment process, statewide total diesel fuel is forecasted with a Diesel Fuel Consumption Model, and gasoline fuel is computed as the difference between total fuel and diesel fuel. Following the comparison/adjustment step, future year VMT, VFC, and vehicle fuel economy (VFE) for each vehicle type are then calculated.

The above sequence produces the "next year" forecast. The process is then recursively applied to produce forecasts for each succeeding year in the forecast period.

Statewide VMT from the above process is distributed to the 58 counties and two major road systems (State Highways and all "Other" public roads) as follows:

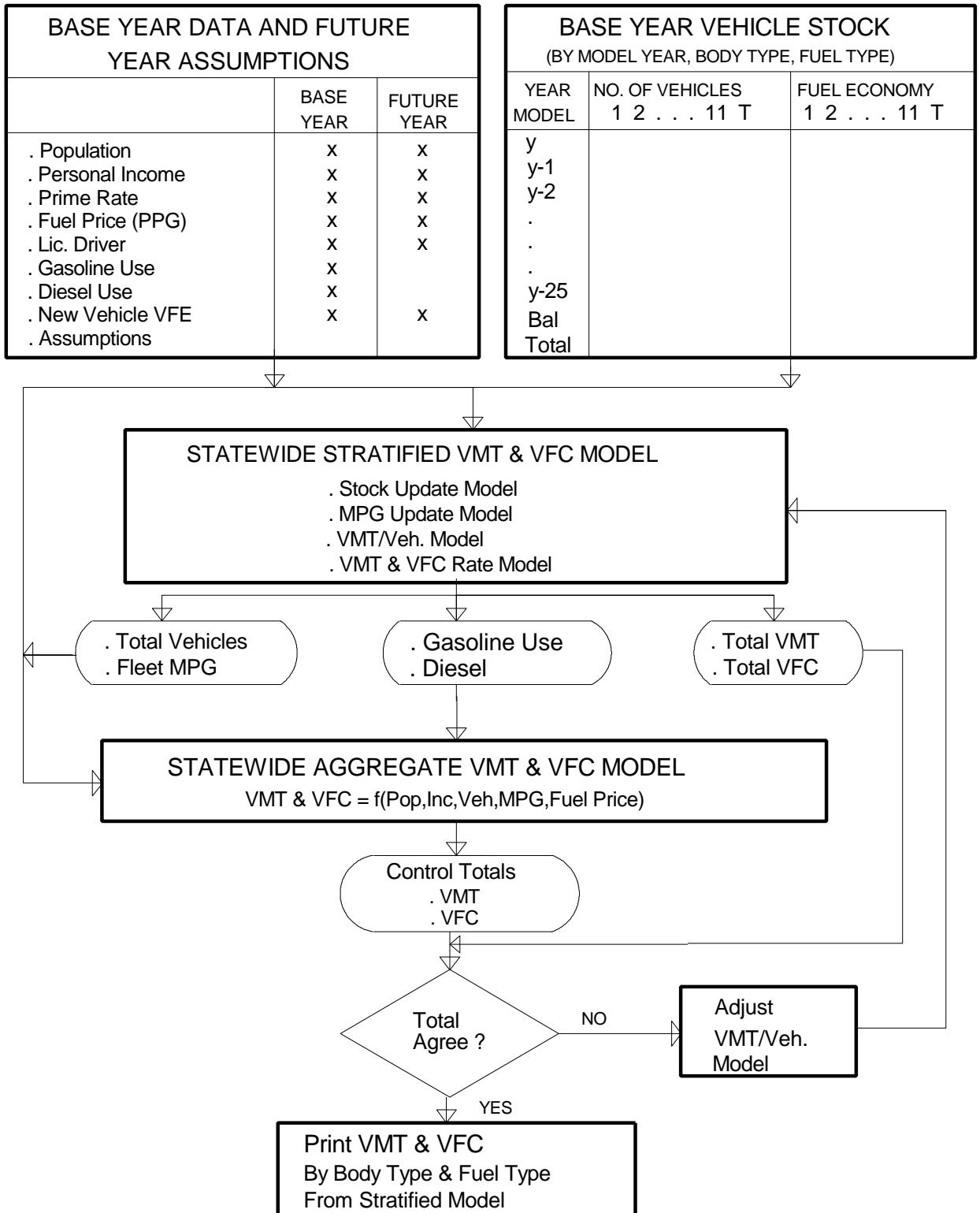
For the base year, county VMT on state highways is obtained directly from the Traffic Operations Program's annual Traffic Accident Surveillance and Analysis System (TASAS) file. County VMT on all other public roads, except that on the local road functional class, is estimated from the annual Highway Performance Monitoring System (HPMS) file. Local road VMT cannot be obtained from either TASAS or HPMS. Therefore, statewide local road VMT is calculated as the difference: statewide total VMT (MVSTAFF) minus state highway VMT (TASAS) and other road VMT (HPMS). Statewide local road VMT is then allocated to each county on the basis of the relative distribution of the quantity, "county automobile registrations times the proportion of local road mileage to the total system mileage".

For future years, the statewide VMT from MVSTAFF is distributed by applying county-specific, annualized growth rates to the base year county estimates described above. The county-specific growth rates are calculated from county population estimates recently published by the Department of Finance. The annualized rates are normalized so that the sum of counties' VMT equals the MVSTAFF statewide VMT.

Statewide VFC is distributed to the 58 counties and the two fuel types, gasoline and diesel, using estimates of county VMT, truck VMT and statewide estimates of vehicle fuel economy.

Figure-1

## MOTOR VEHICLE STOCK, TRAVEL AND FUEL FORECASTING PROCESS



## IV. FORECAST ASSUMPTIONS

As discussed in the previous section and shown in Figure-1, the MVSTAFF process requires base year estimates and future year projections of a number of socioeconomic variables; and explicit assumptions regarding the fuel economy of the vehicle fleet, by vehicle type. The assumptions made regarding the key variables, that drive the forecasting process, are briefly described below.

### A. SOCIOECONOMIC ASSUMPTIONS

Base year (1997) estimates of population and the economic variables were obtained from the California Department of Finance (DOF), the state's official source of such information. Future year population was also obtained from DOF. The Transportation System Information Program developed projections of the economic variables based on the information in the WEFA Group, "U.S. Long-Term Economic Outlook, 3rd Quarter 1998" (Ref. 7) and the "UCLA Anderson Forecast, September 1998" (Ref. 3). The WEFA Group projections represent a "trend/moderate growth" scenario. The MVSTAFF forecasts, therefore, reflect the same scenario imposed on the DOF population projections and the existing legislation regarding current and future taxes on fuel.

The resulting projections, which were used in the forecast, are shown graphically and in tabular form in Figures 2 to 7. A brief discussion of each variable is given below.

#### 1. Population

Population projections used for the years 1997-2020 were the latest data available from DOF (Ref. 4 & 5). These projections are shown in Figure-2. As can be seen, the state's population is projected to continue to increase. The rate increases to a high of 1.84 percent in 2005 and then continues to fall to a low of 1.40 percent in 2020.

#### 2. Inflation Assumptions: The U.S. Consumer Price Index

Projections of total personal income and motor vehicle fuel prices are normally made on a current dollar basis. Because the MVSTAFF process operates on a constant dollar basis, these need to be adjusted for inflation by dividing them by projections of the U.S. Consumer Price Index (U.S. CPI). The projections of the U.S. CPI to 2020 are shown in Figure-3.

It can be seen from Figure-3 that the CPI is projected to increase at an average rate of less than 2.40 percent per year throughout the forecast period.

#### 3. Total Personal Income Per Person

Statewide total personal income per person (IPP) is an important variable in a number of forecasting models used in the MVSTAFF process. For example, it is a major

determinant of new car sales, vehicle ownership and annual miles of travel per person. The 1997 base year income per person was from the California Department of Finance, and the annual percentage growth rates for the future years were derived from the UCLA Anderson Forecast (Ref. 3).

The forecast of statewide total personal income (TPI), in 1967 dollars, is shown in Figure-4, and the forecast of total personal income per person in Figure-5. As can be seen, total personal income, and total personal income per person are expected to increase 5.0 percent and 3.2 percent, respectively, in 1998. Total personal income is projected to increase at an annual average rate of 3.0 percent for the forecast period. The income per person growth rates follow a similar pattern but at a lower rate which average to an annual rate of about 1.4 percent.

#### 4. Fuel Price

Fuel price is one of the most important variables in projecting future vehicle miles of travel and fuel consumption. This is because: (a) it directly and significantly determines the amount of vehicular travel, as shown in the development of the Statewide Aggregate VMT and VFC Model (Ref. 1); (b) over the past twenty years it has had the greatest variability of any of the socioeconomic variables used to forecast VMT and VFC; and (c) it influences the fuel economy of the new vehicle fleet which directly impacts fuel consumption.

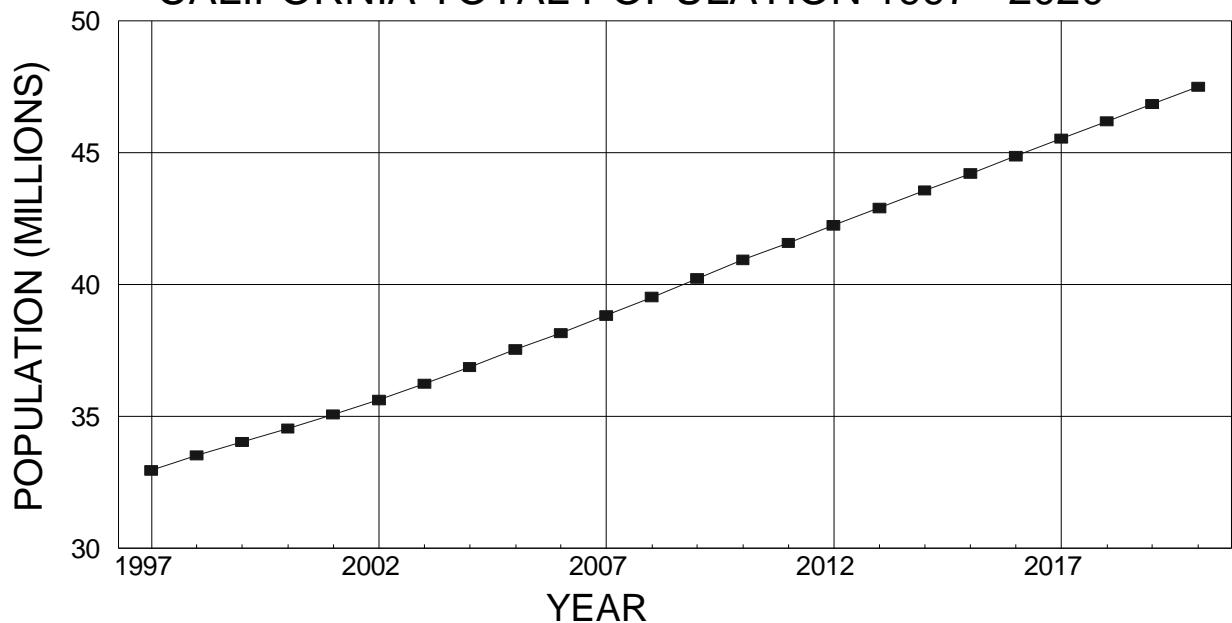
The fuel price variable used in the forecasting process is the price of gasoline, averaged over all grades, and full service and self service sales. The price includes all excise taxes but not sales taxes. Projected gasoline prices in constant 1967 dollars are given in Figure-6. They were estimated using the WEFA long-term gasoline price forecast.

Figure-6 shows the projected fuel prices in constant (1967) dollars. Fuel price is expected to continue to be steady throughout the forecast period. The annual average rate of increase for the total forecast period is slightly over 0.2 percent.

#### 5. Prime Lending Rate

The prime lending rate is one of the variables used to estimate new vehicle sales, which is needed to annually update the vehicle fleet. The prime commercial bank rates for this year's forecast are given in Figure-7. As can be seen, the rate is very steady at the rate of about 8 percent throughout the forecast period.

**Figure-2**  
**CALIFORNIA TOTAL POPULATION 1997 - 2020**

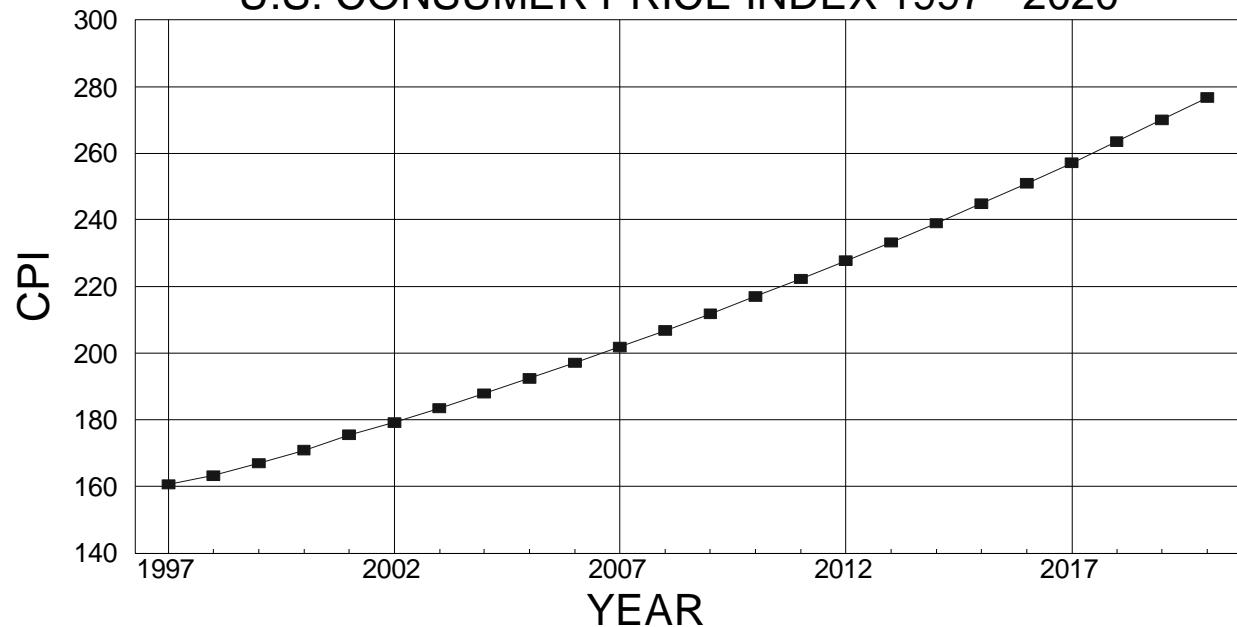


### CALIFORNIA TOTAL POPULATION 1997-2020

| Year | Population | %-CH  |
|------|------------|-------|
| 1997 | 32.957     |       |
| 1998 | 33.523     | 1.718 |
| 1999 | 34.026     | 1.500 |
| 2000 | 34.552     | 1.545 |
| 2001 | 35.086     | 1.547 |
| 2002 | 35.620     | 1.521 |
| 2003 | 36.243     | 1.748 |
| 2004 | 36.872     | 1.736 |
| 2005 | 37.552     | 1.844 |
| 2006 | 38.167     | 1.639 |
| 2007 | 38.828     | 1.731 |
| 2008 | 39.532     | 1.812 |
| 2009 | 40.235     | 1.780 |
| 2010 | 40.939     | 1.749 |
| 2011 | 41.596     | 1.604 |
| 2012 | 42.253     | 1.579 |
| 2013 | 42.909     | 1.554 |
| 2014 | 43.566     | 1.531 |
| 2015 | 44.223     | 1.508 |
| 2016 | 44.880     | 1.485 |
| 2017 | 45.537     | 1.463 |
| 2018 | 46.193     | 1.442 |
| 2019 | 46.850     | 1.422 |
| 2020 | 47.507     | 1.402 |

Population in Millions

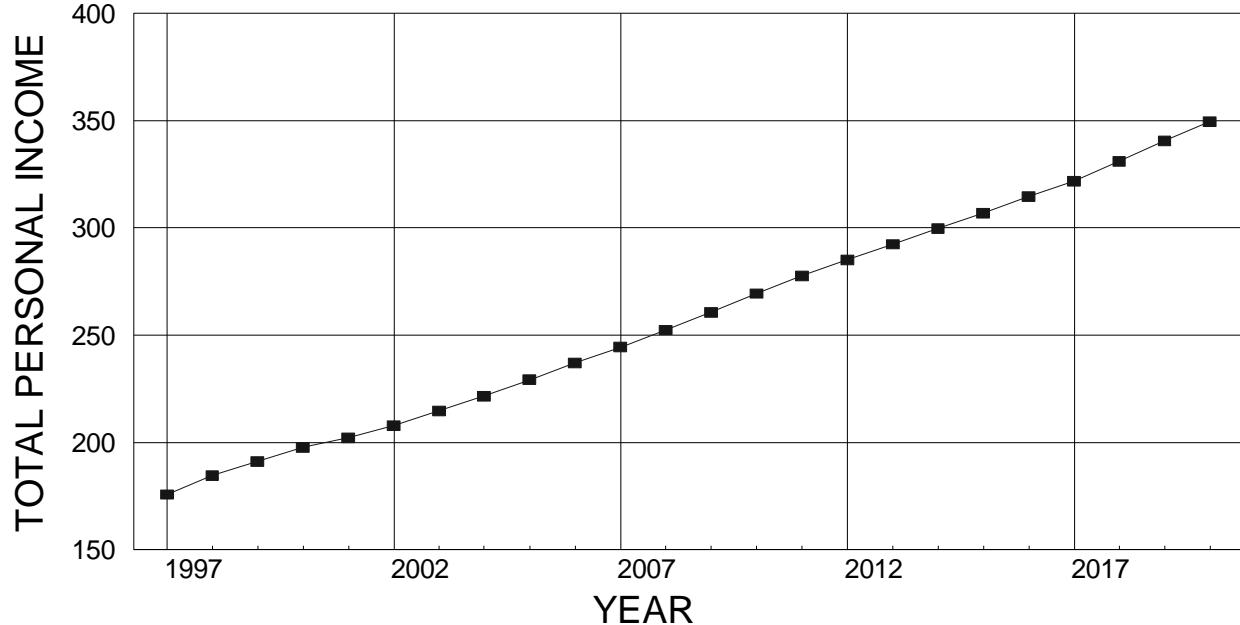
**Figure-3**  
**U.S. CONSUMER PRICE INDEX 1997 - 2020**



### U.S. CONSUMER PRICE INDEX, 1982-1984=100

| Year | CPI     | %-CH  |
|------|---------|-------|
| 1997 | 160.600 |       |
| 1998 | 163.300 | 1.681 |
| 1999 | 167.000 | 2.266 |
| 2000 | 170.900 | 2.335 |
| 2001 | 175.500 | 2.692 |
| 2002 | 179.200 | 2.108 |
| 2003 | 183.500 | 2.400 |
| 2004 | 187.900 | 2.398 |
| 2005 | 192.500 | 2.448 |
| 2006 | 197.100 | 2.390 |
| 2007 | 201.900 | 2.435 |
| 2008 | 206.800 | 2.427 |
| 2009 | 211.800 | 2.418 |
| 2010 | 217.000 | 2.455 |
| 2011 | 222.300 | 2.442 |
| 2012 | 227.700 | 2.429 |
| 2013 | 233.300 | 2.459 |
| 2014 | 239.000 | 2.443 |
| 2015 | 244.900 | 2.469 |
| 2016 | 251.000 | 2.491 |
| 2017 | 257.200 | 2.470 |
| 2018 | 263.500 | 2.449 |
| 2019 | 270.000 | 2.467 |
| 2020 | 276.700 | 2.481 |

Figure-4  
CALIFORNIA TOTAL PERSONAL INCOME IN 1967 DOLLARS

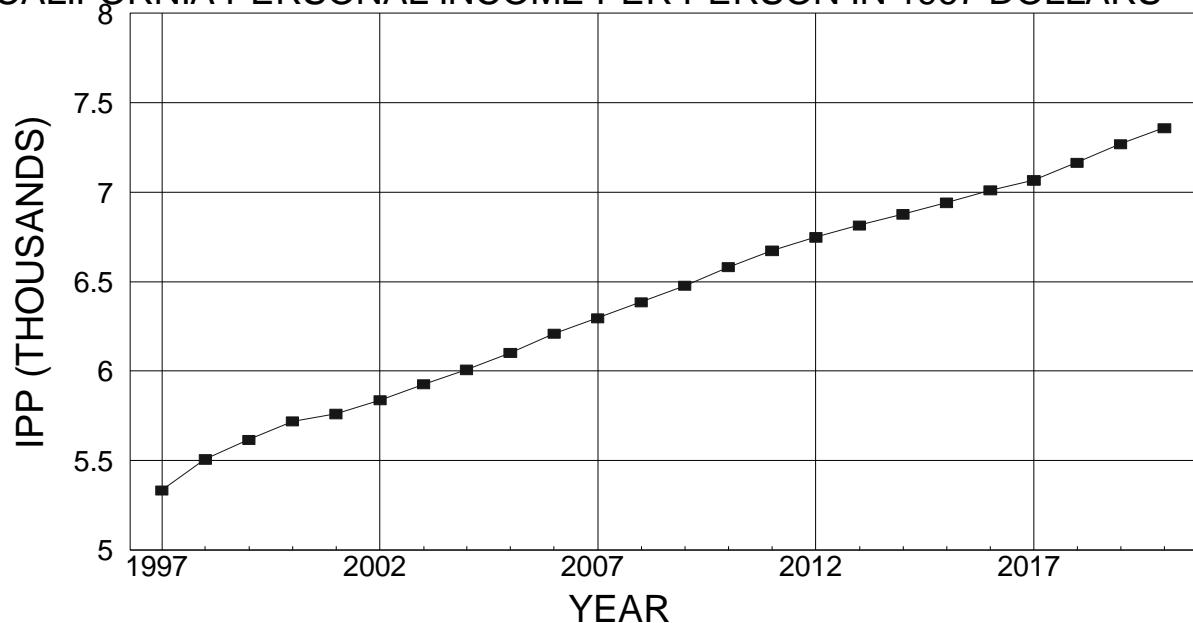


### CALIFORNIA TOTAL PERSONAL INCOME

| Year | TPI     | %-CH  |
|------|---------|-------|
| 1997 | 175.801 |       |
| 1998 | 184.602 | 5.007 |
| 1999 | 191.146 | 3.545 |
| 2000 | 197.625 | 3.390 |
| 2001 | 202.156 | 2.293 |
| 2002 | 207.946 | 2.864 |
| 2003 | 214.835 | 3.313 |
| 2004 | 221.582 | 3.141 |
| 2005 | 229.204 | 3.440 |
| 2006 | 237.053 | 3.425 |
| 2007 | 244.496 | 3.140 |
| 2008 | 252.419 | 3.241 |
| 2009 | 260.627 | 3.252 |
| 2010 | 269.455 | 3.387 |
| 2011 | 277.583 | 3.017 |
| 2012 | 285.141 | 2.723 |
| 2013 | 292.437 | 2.559 |
| 2014 | 299.651 | 2.467 |
| 2015 | 306.996 | 2.451 |
| 2016 | 314.689 | 2.506 |
| 2017 | 321.795 | 2.258 |
| 2018 | 331.009 | 2.863 |
| 2019 | 340.619 | 2.903 |
| 2020 | 349.651 | 2.652 |

TPI in Billions (67\$)

**Figure-5**  
**CALIFORNIA PERSONAL INCOME PER PERSON IN 1967 DOLLARS**

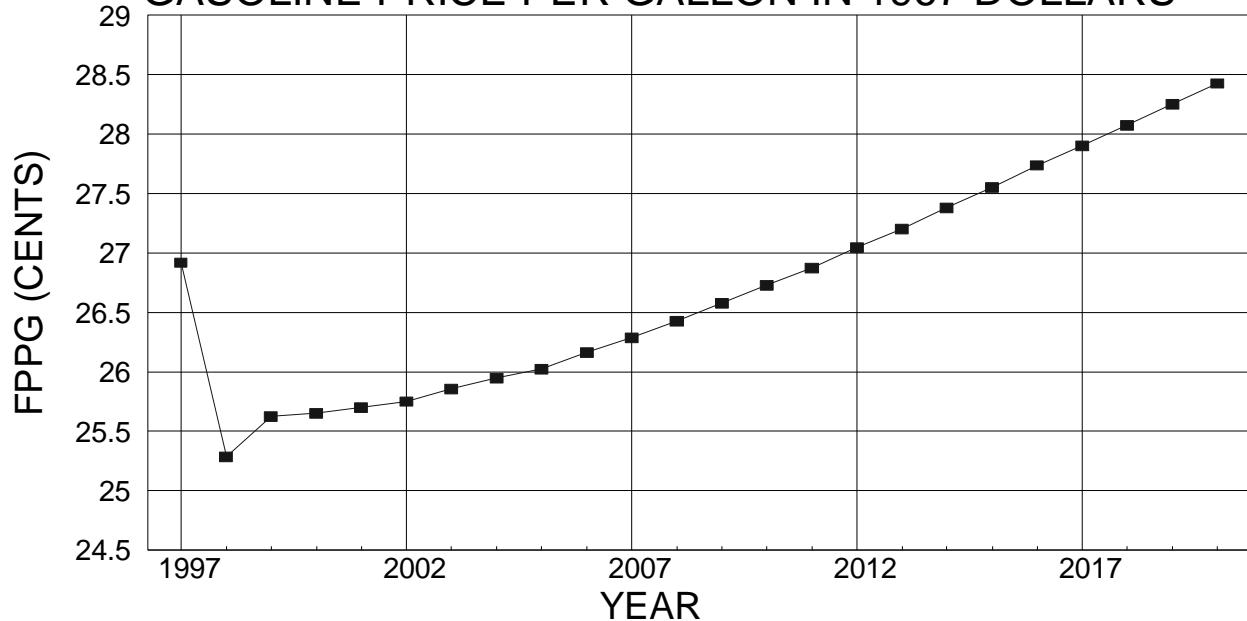


### CALIFORNIA PERSONAL INCOME PER PERSON

| Year | IPP   | %-CH  |
|------|-------|-------|
| 1997 | 5.334 |       |
| 1998 | 5.507 | 3.233 |
| 1999 | 5.618 | 2.015 |
| 2000 | 5.720 | 1.816 |
| 2001 | 5.762 | 0.734 |
| 2002 | 5.838 | 1.322 |
| 2003 | 5.928 | 1.538 |
| 2004 | 6.010 | 1.381 |
| 2005 | 6.104 | 1.567 |
| 2006 | 6.211 | 1.757 |
| 2007 | 6.297 | 1.384 |
| 2008 | 6.385 | 1.403 |
| 2009 | 6.478 | 1.446 |
| 2010 | 6.582 | 1.610 |
| 2011 | 6.673 | 1.390 |
| 2012 | 6.748 | 1.126 |
| 2013 | 6.815 | 0.989 |
| 2014 | 6.878 | 0.922 |
| 2015 | 6.942 | 0.929 |
| 2016 | 7.012 | 1.006 |
| 2017 | 7.067 | 0.783 |
| 2018 | 7.166 | 1.401 |
| 2019 | 7.270 | 1.461 |
| 2020 | 7.360 | 1.233 |

IPP in Thousands (67\$)

Figure-6  
GASOLINE PRICE PER GALLON IN 1967 DOLLARS

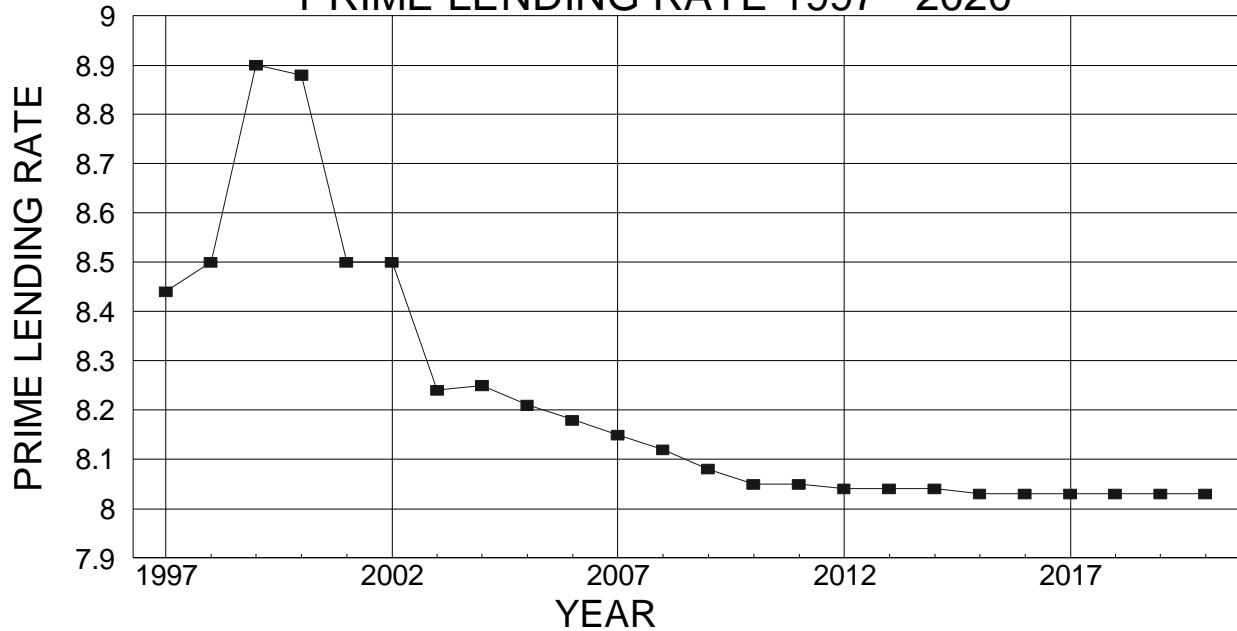


### GASOLINE PRICE PER GALLON IN 1967 DOLLARS

| Year | Price  | %-CH   |
|------|--------|--------|
| 1997 | 26.920 |        |
| 1998 | 25.286 | -6.070 |
| 1999 | 25.628 | 1.353  |
| 2000 | 25.651 | 0.090  |
| 2001 | 25.700 | 0.191  |
| 2002 | 25.752 | 0.202  |
| 2003 | 25.860 | 0.419  |
| 2004 | 25.950 | 0.348  |
| 2005 | 26.026 | 0.293  |
| 2006 | 26.166 | 0.538  |
| 2007 | 26.290 | 0.474  |
| 2008 | 26.428 | 0.525  |
| 2009 | 26.579 | 0.571  |
| 2010 | 26.729 | 0.564  |
| 2011 | 26.875 | 0.546  |
| 2012 | 27.047 | 0.640  |
| 2013 | 27.202 | 0.573  |
| 2014 | 27.380 | 0.654  |
| 2015 | 27.554 | 0.636  |
| 2016 | 27.738 | 0.668  |
| 2017 | 27.903 | 0.595  |
| 2018 | 28.077 | 0.624  |
| 2019 | 28.253 | 0.627  |
| 2020 | 28.430 | 0.626  |

Price in Cents (67\$)

**Figure-7**  
**PRIME LENDING RATE 1997 - 2020**



### PRIME LENDING RATE 1997-2020

| Year | Prime | %-CH   |
|------|-------|--------|
| 1997 | 8.440 |        |
| 1998 | 8.500 | 0.711  |
| 1999 | 8.900 | 4.706  |
| 2000 | 8.880 | -0.225 |
| 2001 | 8.500 | -4.279 |
| 2002 | 8.500 | 0.000  |
| 2003 | 8.240 | -3.059 |
| 2004 | 8.250 | 0.121  |
| 2005 | 8.210 | -0.485 |
| 2006 | 8.180 | -0.365 |
| 2007 | 8.150 | -0.367 |
| 2008 | 8.120 | -0.368 |
| 2009 | 8.080 | -0.493 |
| 2010 | 8.050 | -0.371 |
| 2011 | 8.050 | 0.000  |
| 2012 | 8.040 | -0.124 |
| 2013 | 8.040 | 0.000  |
| 2014 | 8.040 | 0.000  |
| 2015 | 8.030 | -0.124 |
| 2016 | 8.030 | 0.000  |
| 2017 | 8.030 | 0.000  |
| 2018 | 8.030 | 0.000  |
| 2019 | 8.030 | 0.000  |
| 2020 | 8.030 | 0.000  |

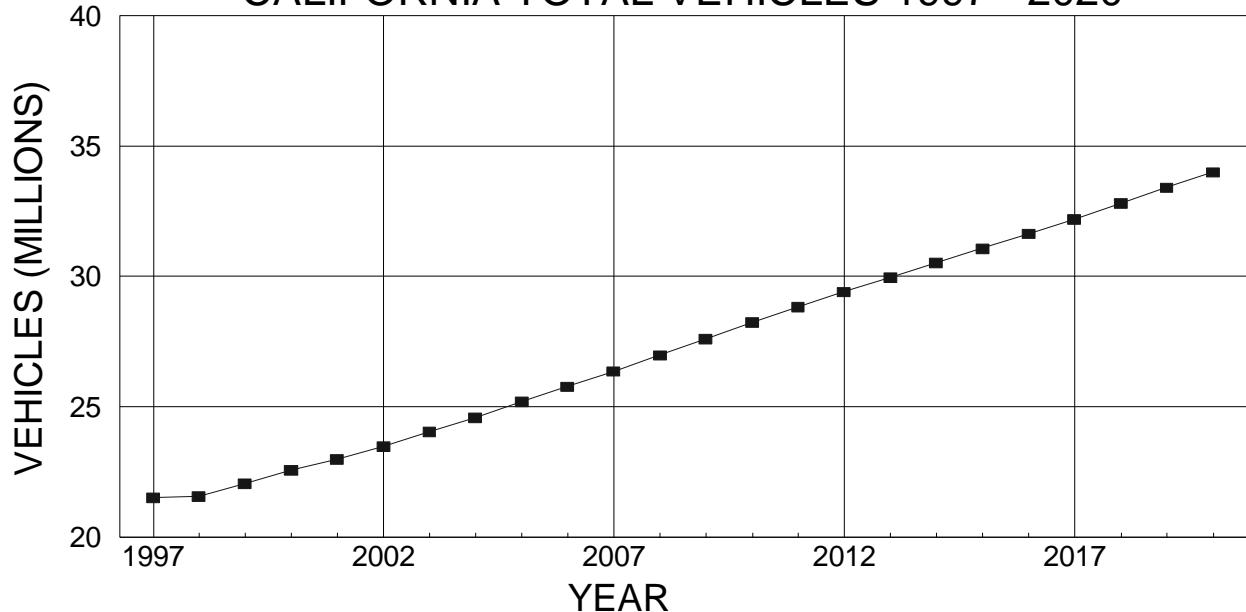
## B. NEW VEHICLE FUEL ECONOMY

The MVSTAFF process requires explicit assumptions of the fuel economy of new vehicles entering the fleet each year. The recent update of the MPG model using the 1994, 1995, 1996 and 1997 Department of Motor Vehicles' vehicle population profile for California, and the EPA Gas Mileage Guides showed that the light duty vehicle fleets (autos and trucks of gross vehicle weight less than 10,000 pounds) meet the national Corporate Average Fuel Economy (CAFE) standards. Because of the fact that the CAFE standard has not been changed, it was assumed the new light duty fleets would continue to have the same fuel economy into the future.

For the medium truck fleets (gross vehicle weight from 10,001 to 33,000 lbs.) and heavy-duty truck fleets (gross vehicle weight greater than 33,000 lbs.), it was reasoned that the manufacturers and buyers are aware of the significance of the fuel operating cost to the trucking industry and that the long-term outlook is for higher fuel prices. Hence, there will be a continuous need and effort to improve truck fuel economy so that in the long run, fuel operating costs will not increase beyond current levels. Using the vehicle fuel economy values from the 1977, 1982, 1987 and 1992 Truck Inventory and Use Survey (TIUS) Reports (Ref. 6) an average annual fleet MPG improvement was calculated for each vehicle and fuel type. These rates of improvement were assumed to continue in the future.

Fuel economy of motorcycles was assumed to be a constant on-road value of 50.0 miles per gallon.

**Figure-8**  
**CALIFORNIA TOTAL VEHICLES 1997 - 2020**



### CALIFORNIA TOTAL VEHICLES 1997-2020

| Year | Vehicles | %-CH  |
|------|----------|-------|
| 1997 | 21.509   |       |
| 1998 | 21.550   | 0.191 |
| 1999 | 22.046   | 2.302 |
| 2000 | 22.559   | 2.327 |
| 2001 | 22.990   | 1.911 |
| 2002 | 23.471   | 2.092 |
| 2003 | 24.031   | 2.386 |
| 2004 | 24.585   | 2.305 |
| 2005 | 25.190   | 2.461 |
| 2006 | 25.772   | 2.310 |
| 2007 | 26.355   | 2.262 |
| 2008 | 26.971   | 2.337 |
| 2009 | 27.594   | 2.310 |
| 2010 | 28.235   | 2.323 |
| 2011 | 28.826   | 2.093 |
| 2012 | 29.396   | 1.977 |
| 2013 | 29.955   | 1.902 |
| 2014 | 30.511   | 1.856 |
| 2015 | 31.068   | 1.826 |
| 2016 | 31.634   | 1.822 |
| 2017 | 32.181   | 1.729 |
| 2018 | 32.788   | 1.886 |
| 2019 | 33.403   | 1.876 |
| 2020 | 33.998   | 1.781 |

Vehicles in Millions

## V. FORECAST RESULTS

### A. Motor Vehicle Stock

The total vehicle figures used in this report are the average number of currently registered motor vehicles in operation in each calendar year. The estimates of the base year and the forecast years are provided in Figure-8. Values in the figure represent all vehicle body types (autos, trucks and motorcycles) and fuel types (gasoline and diesel).

Total vehicles are expected to increase by 0.2% in 1998. However, the long-term forecast is for vehicles to continue to increase, but at declining rates, as population growth slows down and vehicle ownership reaches saturation levels.

Total vehicles were stratified into body type, fuel type, and model year categories with the vehicle stock update model. Table-1 gives the forecasted number of vehicles in each body type and fuel type category for the years 1997 to 2011, 2015 and 2020.

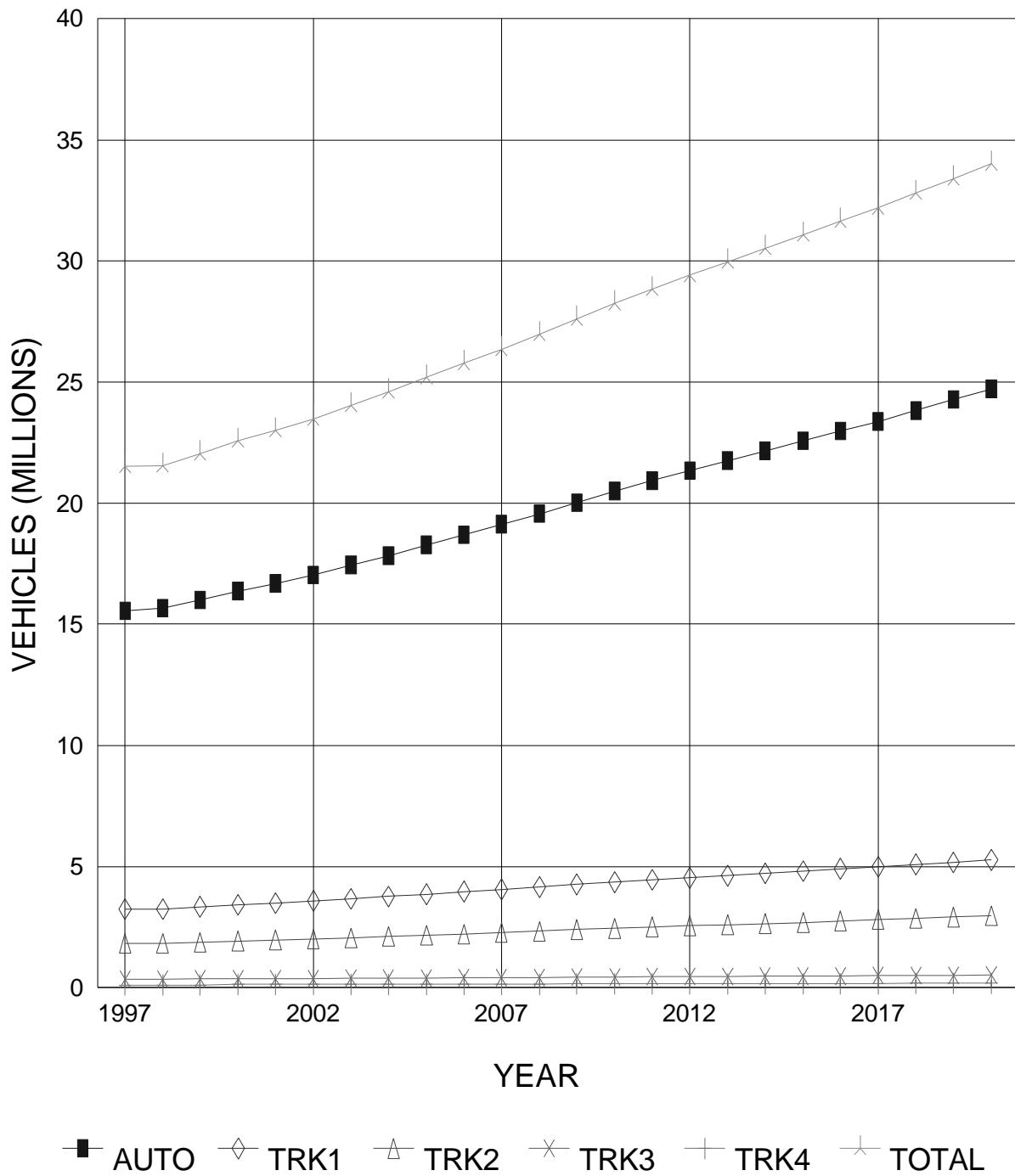
Figure-9 graphically shows the estimates of total gasoline plus diesel vehicles, by body type, for the years 1997 to 2020. The plots correspond to the data given in the upper part of Table-1. Although motorcycles are not shown as a separate entry in the figure, they are included in the "Total" graph.

TABLE-1: CALIFORNIA TOTAL VEHICLES (MILLIONS)

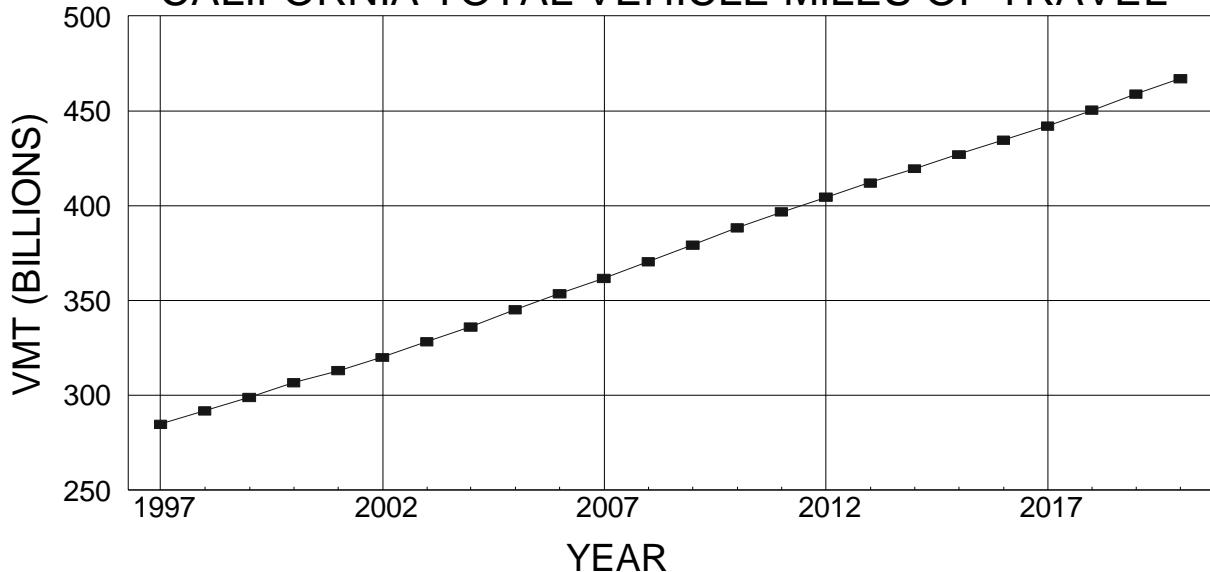
| VEH. TYPE | CAL. YEAR | AUTOS  | BODY TYPE |       |       |       | M.C.  | TOTAL  |
|-----------|-----------|--------|-----------|-------|-------|-------|-------|--------|
|           |           |        | TRK1      | TRK2  | TRK3  | TRK4  |       |        |
| T         | 1997      | 15.542 | 3.242     | 1.819 | 0.348 | 0.121 | 0.438 | 21.509 |
|           | 1998      | 15.652 | 3.243     | 1.820 | 0.348 | 0.121 | 0.365 | 21.550 |
|           | 1999      | 16.005 | 3.330     | 1.868 | 0.354 | 0.123 | 0.366 | 22.046 |
|           | 2000      | 16.372 | 3.418     | 1.917 | 0.360 | 0.125 | 0.366 | 22.559 |
|           | 2001      | 16.680 | 3.493     | 1.960 | 0.365 | 0.127 | 0.366 | 22.990 |
|           | 2002      | 17.025 | 3.574     | 2.005 | 0.371 | 0.129 | 0.366 | 23.471 |
|           | 2003      | 17.430 | 3.668     | 2.058 | 0.378 | 0.131 | 0.367 | 24.031 |
|           | 2004      | 17.830 | 3.760     | 2.109 | 0.385 | 0.134 | 0.367 | 24.585 |
|           | 2005      | 18.270 | 3.859     | 2.165 | 0.393 | 0.136 | 0.367 | 25.190 |
|           | 2006      | 18.692 | 3.954     | 2.219 | 0.401 | 0.139 | 0.367 | 25.772 |
|           | 2007      | 19.116 | 4.049     | 2.272 | 0.409 | 0.141 | 0.367 | 26.355 |
|           | 2008      | 19.565 | 4.149     | 2.328 | 0.417 | 0.144 | 0.368 | 26.971 |
|           | 2009      | 20.019 | 4.250     | 2.385 | 0.426 | 0.147 | 0.368 | 27.594 |
|           | 2010      | 20.486 | 4.353     | 2.442 | 0.435 | 0.150 | 0.368 | 28.235 |
| G         | 2011      | 20.918 | 4.448     | 2.496 | 0.443 | 0.153 | 0.369 | 28.826 |
|           | 2015      | 22.556 | 4.808     | 2.698 | 0.474 | 0.163 | 0.370 | 31.068 |
|           | 2020      | 24.701 | 5.274     | 2.959 | 0.516 | 0.177 | 0.372 | 33.998 |
| A         | 1997      | 15.372 | 3.217     | 1.673 | 0.152 | 0.002 | 0.438 | 20.853 |
|           | 1998      | 15.500 | 3.222     | 1.671 | 0.147 | 0.001 | 0.365 | 20.907 |
|           | 1999      | 15.866 | 3.310     | 1.714 | 0.146 | 0.001 | 0.366 | 21.404 |
|           | 2000      | 16.244 | 3.400     | 1.759 | 0.146 | 0.001 | 0.366 | 21.916 |
|           | 2001      | 16.563 | 3.476     | 1.797 | 0.145 | 0.001 | 0.366 | 22.349 |
|           | 2002      | 16.919 | 3.560     | 1.839 | 0.145 | 0.001 | 0.366 | 22.829 |
|           | 2003      | 17.331 | 3.654     | 1.887 | 0.145 | 0.001 | 0.367 | 23.385 |
|           | 2004      | 17.739 | 3.747     | 1.935 | 0.146 | 0.001 | 0.367 | 23.935 |
|           | 2005      | 18.185 | 3.848     | 1.987 | 0.147 | 0.001 | 0.367 | 24.534 |
|           | 2006      | 18.612 | 3.944     | 2.036 | 0.149 | 0.001 | 0.367 | 25.109 |
|           | 2007      | 19.041 | 4.040     | 2.086 | 0.150 | 0.001 | 0.367 | 25.686 |
|           | 2008      | 19.494 | 4.141     | 2.138 | 0.152 | 0.001 | 0.368 | 26.294 |
|           | 2009      | 19.951 | 4.242     | 2.191 | 0.154 | 0.001 | 0.368 | 26.907 |
|           | 2010      | 20.421 | 4.346     | 2.244 | 0.156 | 0.001 | 0.368 | 27.537 |
| N         | 2011      | 20.855 | 4.442     | 2.294 | 0.158 | 0.001 | 0.369 | 28.119 |
|           | 2015      | 22.500 | 4.803     | 2.481 | 0.166 | 0.001 | 0.370 | 30.322 |
|           | 2020      | 24.648 | 5.271     | 2.722 | 0.179 | 0.002 | 0.372 | 33.192 |
| D         | 1997      | 0.170  | 0.025     | 0.146 | 0.196 | 0.120 | 0.000 | 0.656  |
|           | 1998      | 0.152  | 0.021     | 0.149 | 0.201 | 0.120 | 0.000 | 0.642  |
|           | 1999      | 0.139  | 0.020     | 0.154 | 0.208 | 0.122 | 0.000 | 0.642  |
|           | 2000      | 0.128  | 0.018     | 0.159 | 0.215 | 0.124 | 0.000 | 0.643  |
|           | 2001      | 0.117  | 0.016     | 0.163 | 0.220 | 0.126 | 0.000 | 0.641  |
|           | 2002      | 0.107  | 0.015     | 0.167 | 0.226 | 0.128 | 0.000 | 0.642  |
|           | 2003      | 0.099  | 0.014     | 0.171 | 0.233 | 0.130 | 0.000 | 0.646  |
|           | 2004      | 0.091  | 0.012     | 0.175 | 0.239 | 0.132 | 0.000 | 0.650  |
|           | 2005      | 0.085  | 0.011     | 0.179 | 0.246 | 0.135 | 0.000 | 0.656  |
|           | 2006      | 0.080  | 0.010     | 0.182 | 0.252 | 0.137 | 0.000 | 0.662  |
|           | 2007      | 0.075  | 0.010     | 0.186 | 0.259 | 0.140 | 0.000 | 0.669  |
|           | 2008      | 0.071  | 0.009     | 0.190 | 0.265 | 0.143 | 0.000 | 0.678  |
|           | 2009      | 0.067  | 0.008     | 0.194 | 0.272 | 0.146 | 0.000 | 0.687  |
|           | 2010      | 0.065  | 0.007     | 0.198 | 0.278 | 0.149 | 0.000 | 0.697  |
|           | 2011      | 0.062  | 0.007     | 0.202 | 0.285 | 0.151 | 0.000 | 0.707  |
|           | 2015      | 0.056  | 0.005     | 0.217 | 0.308 | 0.161 | 0.000 | 0.746  |
|           | 2020      | 0.053  | 0.003     | 0.237 | 0.337 | 0.175 | 0.000 | 0.805  |

Figure-9

### CALIFORNIA TOTAL VEHICLES BY BODY TYPE



**Figure-10**  
**CALIFORNIA TOTAL VEHICLE MILES OF TRAVEL**



### CALIFORNIA TOTAL VEHICLE MILES OF TRAVEL

| Year | VMT     | %-CH  |
|------|---------|-------|
| 1997 | 284.823 |       |
| 1998 | 291.946 | 2.501 |
| 1999 | 298.952 | 2.400 |
| 2000 | 306.791 | 2.622 |
| 2001 | 313.060 | 2.043 |
| 2002 | 320.131 | 2.259 |
| 2003 | 328.287 | 2.548 |
| 2004 | 336.264 | 2.430 |
| 2005 | 345.231 | 2.667 |
| 2006 | 353.629 | 2.433 |
| 2007 | 361.887 | 2.335 |
| 2008 | 370.580 | 2.402 |
| 2009 | 379.339 | 2.364 |
| 2010 | 388.404 | 2.390 |
| 2011 | 396.730 | 2.144 |
| 2012 | 404.534 | 1.967 |
| 2013 | 412.175 | 1.889 |
| 2014 | 419.629 | 1.808 |
| 2015 | 427.122 | 1.786 |
| 2016 | 434.753 | 1.787 |
| 2017 | 441.998 | 1.666 |
| 2018 | 450.426 | 1.907 |
| 2019 | 458.938 | 1.890 |
| 2020 | 467.053 | 1.768 |

VMT in Billion Miles

## B Vehicle Miles of Travel

Statewide total vehicle miles of travel projected by the forecast are given in Figure-10. The values in the figure represent travel by all vehicle body types and fuel types on all public roads.

The 1997 vehicle miles of travel (VMT) estimate of 284.823 is based on the 1997 on-road fuel consumption estimate from the Board of Equalization's sales data, and the 1997 on-road vehicle fleet fuel economy from the MVSTAFF Stratified Rate Model. In 1998 statewide VMT is expected to increase by 2.5%. In comparison, data from the Traffic Operations Program, traffic monitoring stations indicate a 2.7% increase in VMT on the state highway system for the first eight months of 1998. In 1999, VMT is expected to increase by 2.4%. The long-term forecast is for VMT to continue to grow, but at significantly lower rates than it has in the past. The slow down is predicated on lower statewide population and economic growth. For air quality conformity analysis purposes the annual VMT in 5-year increments from 1990 are listed in Table-1.1.

Forecasts of statewide total VMT stratified by six body types and two fuel types are given in Table-2. Graphs of VMT by body type are given in Figure-11. The graphs correspond to the data in the upper part of Table-2. Although VMT by motorcycles is not shown as a separate entry in the figure, it is included in the "Total VMT" graph.

Table-1.1

Total Statewide VMT and Five-year Percent Change

| YEAR | VMT     | %-CH   |
|------|---------|--------|
| 1990 | 259.003 |        |
| 1995 | 276.968 | 6.936  |
| 2000 | 306.791 | 10.767 |
| 2005 | 345.231 | 12.530 |
| 2010 | 388.404 | 12.505 |
| 2015 | 427.122 | 9.969  |
| 2020 | 467.053 | 9.349  |

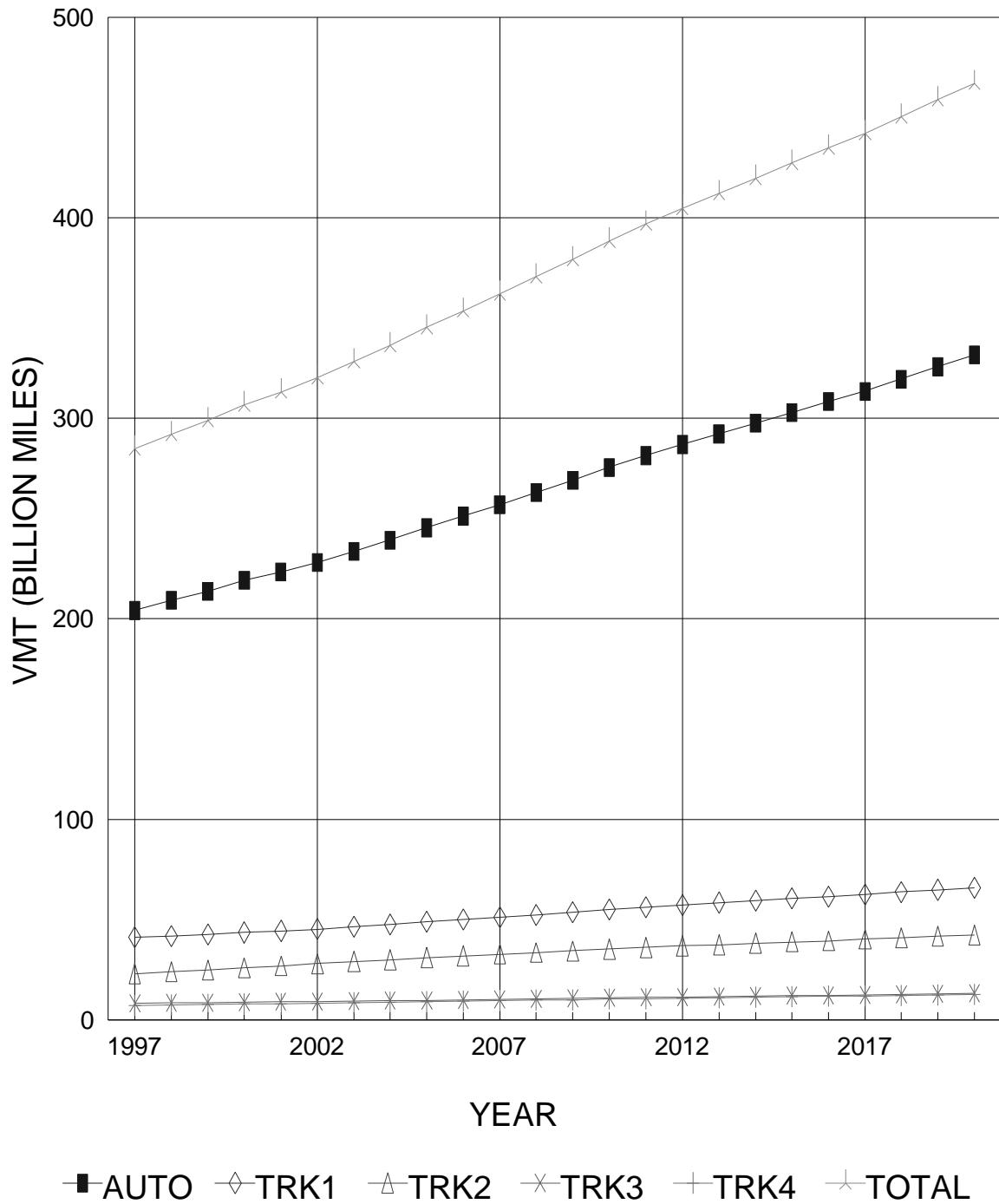
VMT in Billion Miles

Table-2 CALIFORNIA TOTAL VEHICLE MILES OF TRAVEL (BILLIONS)

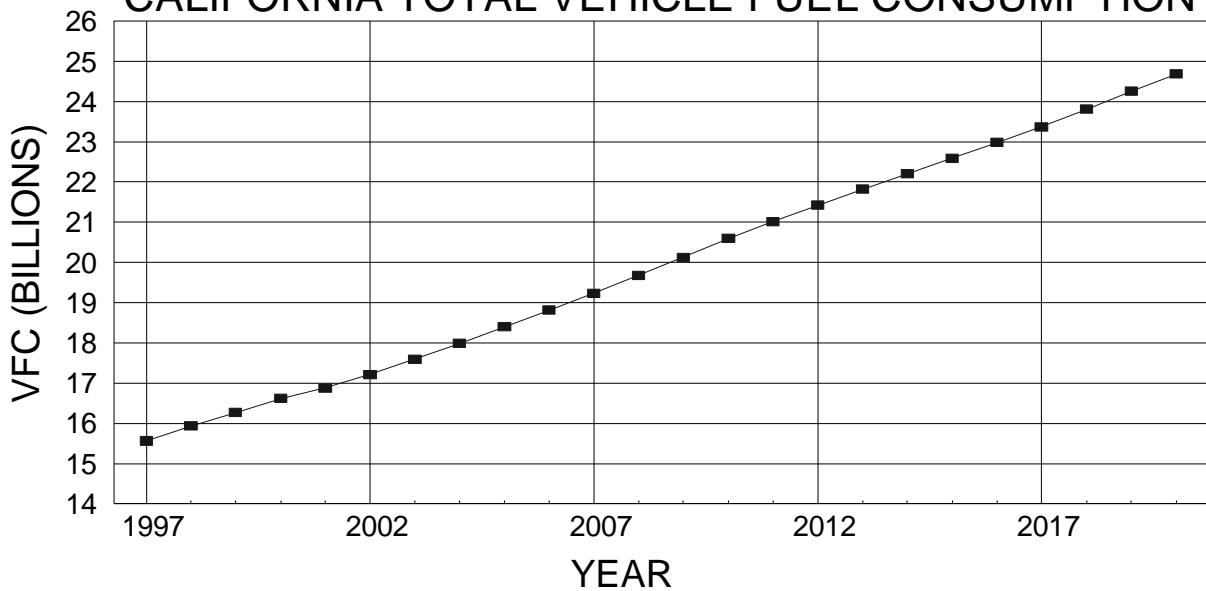
| VEH. TYPE                            | CAL. YEAR | AUTOS   | BODY TYPE |        |        |        | M.C.  | TOTAL   |
|--------------------------------------|-----------|---------|-----------|--------|--------|--------|-------|---------|
|                                      |           |         | TRK1      | TRK2   | TRK3   | TRK4   |       |         |
| T<br>O<br>T<br>A<br>L                | 1997      | 204.184 | 41.214    | 22.988 | 8.247  | 7.227  | 0.963 | 284.823 |
|                                      | 1998      | 209.170 | 41.805    | 24.143 | 8.513  | 7.512  | 0.804 | 291.946 |
|                                      | 1999      | 213.846 | 42.694    | 25.145 | 8.722  | 7.741  | 0.805 | 298.952 |
|                                      | 2000      | 219.182 | 43.723    | 26.186 | 8.927  | 7.968  | 0.806 | 306.791 |
|                                      | 2001      | 223.446 | 44.506    | 27.105 | 9.060  | 8.138  | 0.806 | 313.060 |
|                                      | 2002      | 228.204 | 45.460    | 28.084 | 9.228  | 8.349  | 0.806 | 320.131 |
|                                      | 2003      | 233.784 | 46.566    | 29.100 | 9.433  | 8.597  | 0.807 | 328.287 |
|                                      | 2004      | 239.253 | 47.665    | 30.070 | 9.630  | 8.839  | 0.807 | 336.264 |
|                                      | 2005      | 245.473 | 48.912    | 31.074 | 9.859  | 9.106  | 0.807 | 345.231 |
|                                      | 2006      | 251.283 | 50.089    | 31.991 | 10.089 | 9.368  | 0.808 | 353.629 |
|                                      | 2007      | 257.031 | 51.259    | 32.861 | 10.308 | 9.619  | 0.808 | 361.887 |
|                                      | 2008      | 263.118 | 52.491    | 33.735 | 10.545 | 9.882  | 0.809 | 370.580 |
|                                      | 2009      | 269.268 | 53.731    | 34.590 | 10.791 | 10.149 | 0.810 | 379.339 |
|                                      | 2010      | 275.650 | 55.016    | 35.449 | 11.051 | 10.428 | 0.810 | 388.404 |
| G<br>A<br>S<br>O<br>L<br>I<br>N<br>E | 2011      | 281.517 | 56.209    | 36.232 | 11.280 | 10.681 | 0.811 | 396.730 |
|                                      | 2015      | 302.992 | 60.603    | 38.968 | 12.125 | 11.618 | 0.814 | 427.122 |
|                                      | 2020      | 331.476 | 66.141    | 42.398 | 13.388 | 12.832 | 0.818 | 467.053 |
|                                      | 1997      | 202.475 | 41.018    | 20.886 | 1.772  | 0.012  | 0.963 | 267.126 |
|                                      | 1998      | 207.669 | 41.646    | 21.974 | 1.804  | 0.013  | 0.804 | 273.910 |
|                                      | 1999      | 212.514 | 42.563    | 22.925 | 1.831  | 0.014  | 0.805 | 280.653 |
|                                      | 2000      | 217.987 | 43.615    | 23.910 | 1.862  | 0.015  | 0.806 | 288.196 |
|                                      | 2001      | 222.375 | 44.418    | 24.785 | 1.881  | 0.017  | 0.806 | 294.281 |
|                                      | 2002      | 227.235 | 45.389    | 25.713 | 1.909  | 0.018  | 0.806 | 301.069 |
|                                      | 2003      | 232.895 | 46.510    | 26.672 | 1.945  | 0.019  | 0.807 | 308.848 |
|                                      | 2004      | 238.433 | 47.621    | 27.586 | 1.980  | 0.021  | 0.807 | 316.447 |
|                                      | 2005      | 244.703 | 48.877    | 28.530 | 2.023  | 0.022  | 0.807 | 324.962 |
|                                      | 2006      | 250.556 | 50.062    | 29.389 | 2.066  | 0.024  | 0.808 | 332.905 |
|                                      | 2007      | 256.337 | 51.237    | 30.202 | 2.108  | 0.025  | 0.808 | 340.718 |
|                                      | 2008      | 262.447 | 52.472    | 31.015 | 2.154  | 0.027  | 0.809 | 348.924 |
|                                      | 2009      | 268.613 | 53.715    | 31.808 | 2.201  | 0.028  | 0.810 | 357.175 |
|                                      | 2010      | 275.005 | 55.001    | 32.604 | 2.253  | 0.029  | 0.810 | 365.702 |
|                                      | 2011      | 280.880 | 56.195    | 33.326 | 2.299  | 0.030  | 0.811 | 373.542 |
|                                      | 2015      | 302.370 | 60.593    | 35.849 | 2.468  | 0.034  | 0.814 | 402.128 |
|                                      | 2020      | 330.836 | 66.133    | 39.006 | 2.728  | 0.038  | 0.818 | 439.559 |
| D<br>I<br>E<br>S<br>E<br>L           | 1997      | 1.709   | 0.197     | 2.102  | 6.475  | 7.215  | 0.000 | 17.697  |
|                                      | 1998      | 1.501   | 0.159     | 2.169  | 6.709  | 7.499  | 0.000 | 18.037  |
|                                      | 1999      | 1.331   | 0.131     | 2.220  | 6.890  | 7.727  | 0.000 | 18.299  |
|                                      | 2000      | 1.195   | 0.108     | 2.275  | 7.065  | 7.953  | 0.000 | 18.595  |
|                                      | 2001      | 1.071   | 0.088     | 2.320  | 7.179  | 8.121  | 0.000 | 18.779  |
|                                      | 2002      | 0.969   | 0.070     | 2.371  | 7.320  | 8.332  | 0.000 | 19.062  |
|                                      | 2003      | 0.889   | 0.056     | 2.428  | 7.488  | 8.578  | 0.000 | 19.440  |
|                                      | 2004      | 0.821   | 0.044     | 2.483  | 7.650  | 8.818  | 0.000 | 19.816  |
|                                      | 2005      | 0.770   | 0.035     | 2.544  | 7.836  | 9.084  | 0.000 | 20.269  |
|                                      | 2006      | 0.727   | 0.028     | 2.602  | 8.022  | 9.344  | 0.000 | 20.723  |
|                                      | 2007      | 0.695   | 0.022     | 2.659  | 8.200  | 9.594  | 0.000 | 21.169  |
|                                      | 2008      | 0.672   | 0.019     | 2.720  | 8.391  | 9.855  | 0.000 | 21.656  |
|                                      | 2009      | 0.655   | 0.017     | 2.781  | 8.590  | 10.121 | 0.000 | 22.164  |
|                                      | 2010      | 0.645   | 0.015     | 2.846  | 8.798  | 10.398 | 0.000 | 22.702  |
|                                      | 2011      | 0.637   | 0.014     | 2.905  | 8.981  | 10.651 | 0.000 | 23.187  |
|                                      | 2015      | 0.623   | 0.010     | 3.119  | 9.658  | 11.584 | 0.000 | 24.994  |
|                                      | 2020      | 0.640   | 0.007     | 3.393  | 10.660 | 12.794 | 0.000 | 27.494  |

Figure-11

## CALIFORNIA VEHICLE MILES OF TRAVEL BY BODY TYPE



**Figure-12**  
**CALIFORNIA TOTAL VEHICLE FUEL CONSUMPTION**



### CALIFORNIA TOTAL VEHICLE FUEL CONSUMPTION

| Year | VFC    | %-CH  |
|------|--------|-------|
| 1997 | 15.564 |       |
| 1998 | 15.937 | 2.397 |
| 1999 | 16.264 | 2.052 |
| 2000 | 16.620 | 2.189 |
| 2001 | 16.881 | 1.570 |
| 2002 | 17.216 | 1.984 |
| 2003 | 17.598 | 2.219 |
| 2004 | 17.990 | 2.228 |
| 2005 | 18.401 | 2.285 |
| 2006 | 18.817 | 2.261 |
| 2007 | 19.235 | 2.221 |
| 2008 | 19.678 | 2.303 |
| 2009 | 20.126 | 2.277 |
| 2010 | 20.595 | 2.330 |
| 2011 | 21.020 | 2.064 |
| 2012 | 21.420 | 1.903 |
| 2013 | 21.815 | 1.844 |
| 2014 | 22.201 | 1.769 |
| 2015 | 22.591 | 1.757 |
| 2016 | 22.985 | 1.744 |
| 2017 | 23.375 | 1.697 |
| 2018 | 23.808 | 1.852 |
| 2019 | 24.259 | 1.894 |
| 2020 | 24.684 | 1.752 |

VFC in Billion Gallons

### C. Vehicle Fuel Consumption

Statewide total on-road fuel consumption projected by the forecast is given in Figure-12. The values represent total gasoline and diesel fuel used on all public roads. The base year (1997) values are estimates using Board of Equalization data. Forecasts beyond 1997 use the MVSTAFF process with the 1997 estimate as a base.

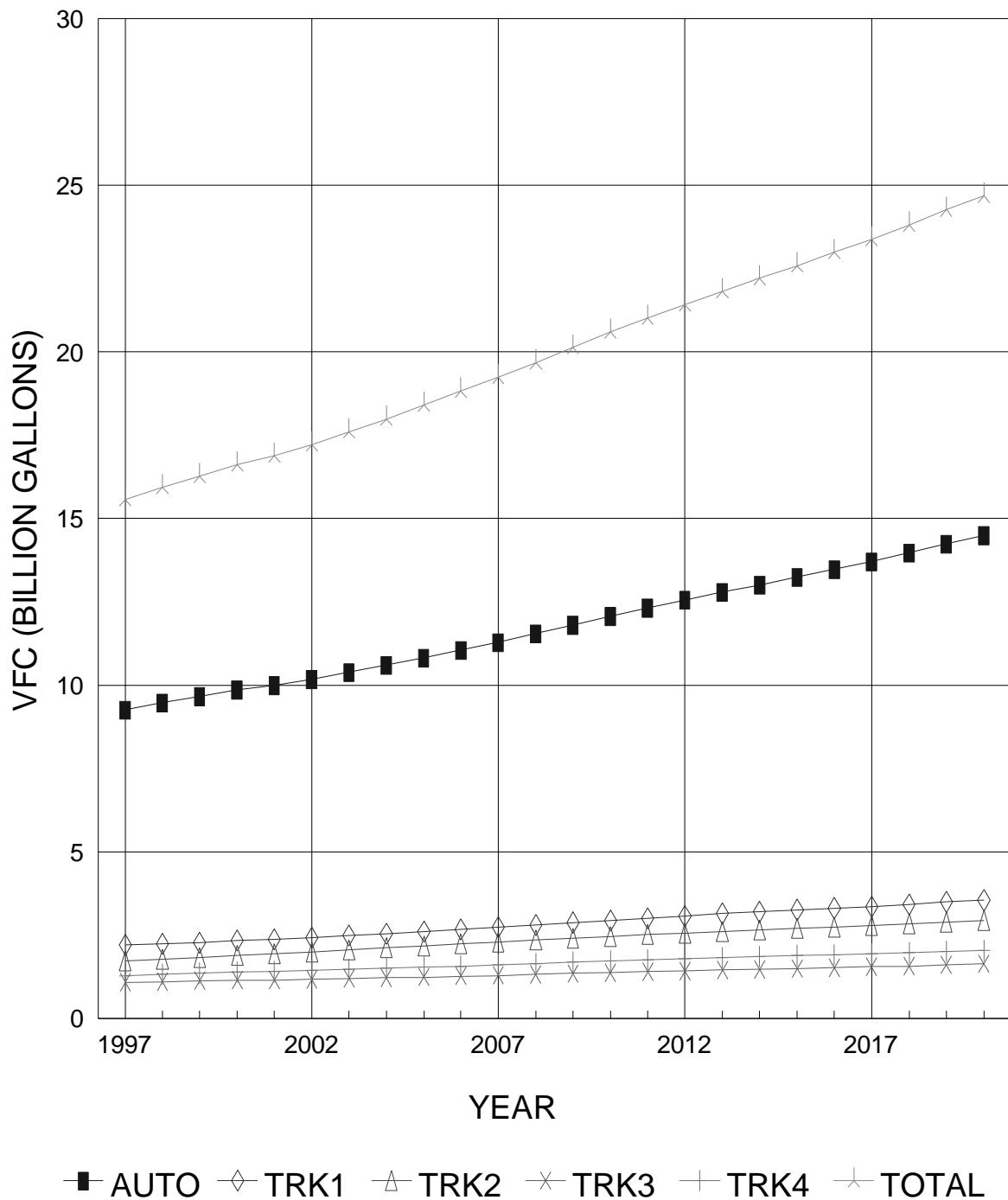
As can be seen from Figure-12, on-road fuel consumption is expected to increase 2.40% in 1998. Annual fuel consumption by vehicle type and fuel type for each year of the forecast is given in Table-3. Total fuel consumption is expected to increase for autos and all types of trucks. Diesel fuel consumption for autos and light trucks are decreasing because the numbers of these total vehicles are projected to decrease.

Figure-13 graphs the annual total fuel consumption of the vehicle fleet by body type for years 1997 to 2020. The graphs correspond to the data given in the upper part of Table-3. Although motorcycle fuel consumption is not shown as a separate entry in the figure, it is included in the "Total" graph.

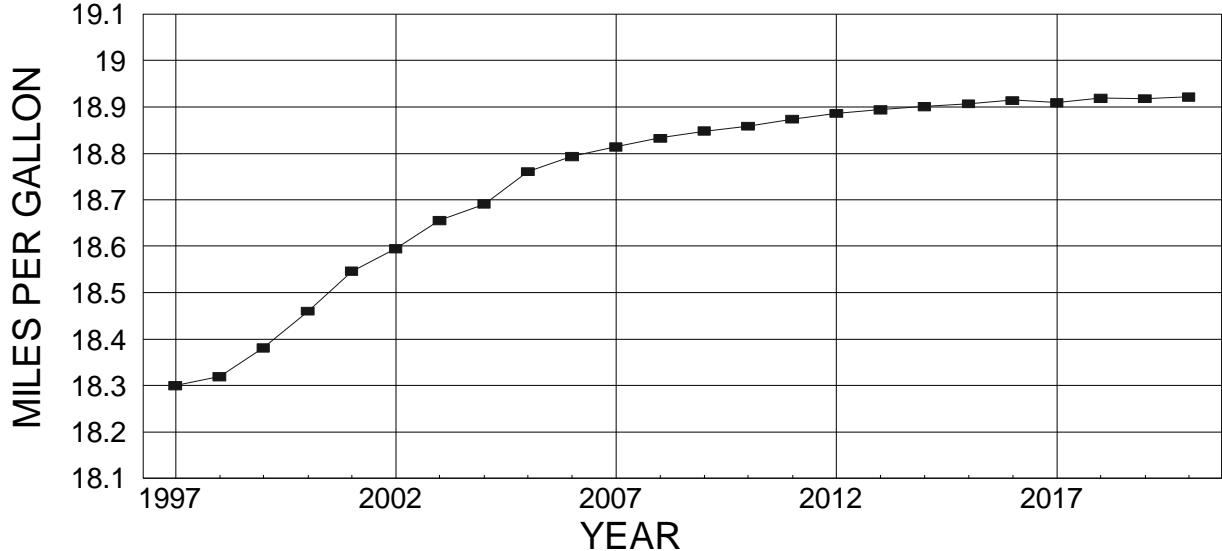
Table-3: CALIFORNIA TOTAL VEHICLE FUEL CONSUMPTION (BILLIONS)

| VEH. TYPE | CAL. YEAR | AUTOS  | BODY TYPE |       |       |       | M.C.  | TOTAL  |
|-----------|-----------|--------|-----------|-------|-------|-------|-------|--------|
|           |           |        | TRK1      | TRK2  | TRK3  | TRK4  |       |        |
| T O T A L | 1997      | 9.259  | 2.210     | 1.718 | 1.079 | 1.279 | 0.019 | 15.564 |
|           | 1998      | 9.485  | 2.235     | 1.774 | 1.107 | 1.320 | 0.016 | 15.937 |
|           | 1999      | 9.667  | 2.275     | 1.826 | 1.128 | 1.352 | 0.016 | 16.264 |
|           | 2000      | 9.857  | 2.331     | 1.884 | 1.148 | 1.383 | 0.016 | 16.620 |
|           | 2001      | 9.996  | 2.371     | 1.934 | 1.159 | 1.404 | 0.016 | 16.881 |
|           | 2002      | 10.178 | 2.423     | 1.991 | 1.176 | 1.432 | 0.016 | 17.216 |
|           | 2003      | 10.380 | 2.483     | 2.053 | 1.197 | 1.467 | 0.016 | 17.598 |
|           | 2004      | 10.598 | 2.545     | 2.114 | 1.217 | 1.500 | 0.016 | 17.990 |
|           | 2005      | 10.819 | 2.611     | 2.176 | 1.242 | 1.537 | 0.016 | 18.401 |
|           | 2006      | 11.049 | 2.676     | 2.235 | 1.267 | 1.574 | 0.016 | 18.817 |
|           | 2007      | 11.288 | 2.740     | 2.291 | 1.291 | 1.609 | 0.016 | 19.235 |
|           | 2008      | 11.544 | 2.807     | 2.349 | 1.317 | 1.645 | 0.016 | 19.678 |
|           | 2009      | 11.802 | 2.875     | 2.405 | 1.345 | 1.682 | 0.016 | 20.126 |
|           | 2010      | 12.075 | 2.946     | 2.463 | 1.374 | 1.721 | 0.016 | 20.595 |
| GASES     | 2011      | 12.322 | 3.010     | 2.516 | 1.400 | 1.756 | 0.016 | 21.020 |
|           | 2015      | 13.245 | 3.251     | 2.702 | 1.495 | 1.881 | 0.016 | 22.591 |
|           | 2020      | 14.490 | 3.550     | 2.939 | 1.642 | 2.046 | 0.016 | 24.684 |
| GASES     | 1997      | 9.195  | 2.201     | 1.603 | 0.252 | 0.002 | 0.019 | 13.273 |
|           | 1998      | 9.429  | 2.228     | 1.655 | 0.255 | 0.002 | 0.016 | 13.585 |
|           | 1999      | 9.617  | 2.270     | 1.704 | 0.257 | 0.002 | 0.016 | 13.866 |
|           | 2000      | 9.813  | 2.326     | 1.758 | 0.260 | 0.003 | 0.016 | 14.175 |
|           | 2001      | 9.956  | 2.367     | 1.804 | 0.261 | 0.003 | 0.016 | 14.408 |
|           | 2002      | 10.143 | 2.420     | 1.858 | 0.263 | 0.003 | 0.016 | 14.703 |
|           | 2003      | 10.348 | 2.481     | 1.916 | 0.267 | 0.003 | 0.016 | 15.032 |
|           | 2004      | 10.568 | 2.543     | 1.973 | 0.270 | 0.004 | 0.016 | 15.375 |
|           | 2005      | 10.791 | 2.609     | 2.032 | 0.275 | 0.004 | 0.016 | 15.727 |
|           | 2006      | 11.023 | 2.675     | 2.087 | 0.280 | 0.004 | 0.016 | 16.085 |
|           | 2007      | 11.263 | 2.739     | 2.140 | 0.284 | 0.004 | 0.016 | 16.447 |
|           | 2008      | 11.520 | 2.806     | 2.194 | 0.289 | 0.005 | 0.016 | 16.830 |
|           | 2009      | 11.780 | 2.874     | 2.247 | 0.295 | 0.005 | 0.016 | 17.216 |
|           | 2010      | 12.052 | 2.945     | 2.300 | 0.300 | 0.005 | 0.016 | 17.620 |
|           | 2011      | 12.299 | 3.010     | 2.350 | 0.305 | 0.005 | 0.016 | 17.985 |
| DIESEL    | 2015      | 13.223 | 3.250     | 2.524 | 0.324 | 0.006 | 0.016 | 19.344 |
|           | 2020      | 14.468 | 3.549     | 2.745 | 0.354 | 0.006 | 0.016 | 21.139 |
| DIESEL    | 1997      | 0.064  | 0.008     | 0.114 | 0.827 | 1.277 | 0.000 | 2.291  |
|           | 1998      | 0.056  | 0.007     | 0.119 | 0.852 | 1.318 | 0.000 | 2.352  |
|           | 1999      | 0.049  | 0.006     | 0.123 | 0.871 | 1.350 | 0.000 | 2.398  |
|           | 2000      | 0.044  | 0.005     | 0.127 | 0.888 | 1.381 | 0.000 | 2.444  |
|           | 2001      | 0.040  | 0.004     | 0.130 | 0.898 | 1.401 | 0.000 | 2.473  |
|           | 2002      | 0.035  | 0.003     | 0.133 | 0.912 | 1.429 | 0.000 | 2.513  |
|           | 2003      | 0.032  | 0.002     | 0.137 | 0.930 | 1.464 | 0.000 | 2.566  |
|           | 2004      | 0.030  | 0.002     | 0.140 | 0.947 | 1.496 | 0.000 | 2.615  |
|           | 2005      | 0.028  | 0.001     | 0.144 | 0.968 | 1.533 | 0.000 | 2.674  |
|           | 2006      | 0.026  | 0.001     | 0.148 | 0.987 | 1.569 | 0.000 | 2.732  |
|           | 2007      | 0.025  | 0.001     | 0.151 | 1.007 | 1.605 | 0.000 | 2.789  |
|           | 2008      | 0.024  | 0.001     | 0.155 | 1.028 | 1.640 | 0.000 | 2.848  |
|           | 2009      | 0.023  | 0.001     | 0.159 | 1.051 | 1.677 | 0.000 | 2.910  |
|           | 2010      | 0.023  | 0.001     | 0.162 | 1.074 | 1.716 | 0.000 | 2.976  |
|           | 2011      | 0.023  | 0.001     | 0.166 | 1.094 | 1.751 | 0.000 | 3.035  |
|           | 2015      | 0.022  | 0.000     | 0.178 | 1.171 | 1.875 | 0.000 | 3.247  |
|           | 2020      | 0.023  | 0.000     | 0.194 | 1.288 | 2.040 | 0.000 | 3.545  |

Figure-13  
CALIFORNIA VEHICLE FUEL CONSUMPTION BY BODY TYPE



**Figure-14**  
**CALIFORNIA TOTAL VEHICLE FLEET FUEL ECONOMY**



### CALIFORNIA TOTAL VEHICLE FLEET FUEL ECONOMY

| Year | MPG    | %-CH   |
|------|--------|--------|
| 1997 | 18.300 |        |
| 1998 | 18.319 | 0.104  |
| 1999 | 18.381 | 0.338  |
| 2000 | 18.460 | 0.430  |
| 2001 | 18.546 | 0.466  |
| 2002 | 18.595 | 0.264  |
| 2003 | 18.655 | 0.323  |
| 2004 | 18.691 | 0.193  |
| 2005 | 18.761 | 0.375  |
| 2006 | 18.793 | 0.171  |
| 2007 | 18.814 | 0.112  |
| 2008 | 18.833 | 0.101  |
| 2009 | 18.848 | 0.080  |
| 2010 | 18.859 | 0.058  |
| 2011 | 18.874 | 0.080  |
| 2012 | 18.886 | 0.064  |
| 2013 | 18.894 | 0.042  |
| 2014 | 18.901 | 0.037  |
| 2015 | 18.907 | 0.032  |
| 2016 | 18.914 | 0.037  |
| 2017 | 18.909 | -0.026 |
| 2018 | 18.919 | 0.053  |
| 2019 | 18.918 | -0.005 |
| 2020 | 18.921 | 0.016  |

MPG: Miles Per Gallon

#### D. Vehicle Fuel Economy

Forecasts of the total fleet on-road fuel economy are given in Figure-14. The results are a direct output of the Stratified Rate Model which computes the harmonic average fuel economy by weighting the number of vehicles in each stratum by the annual miles of travel and fuel economy of that stratum.

As can be seen from Figure-14, total fleet fuel economy is expected to improve slightly throughout the forecast period. This is the result of the assumption that the new car fleet fuel economy will remain at 27.5 miles per gallon, replacing the older and lower fuel efficiency vehicles.

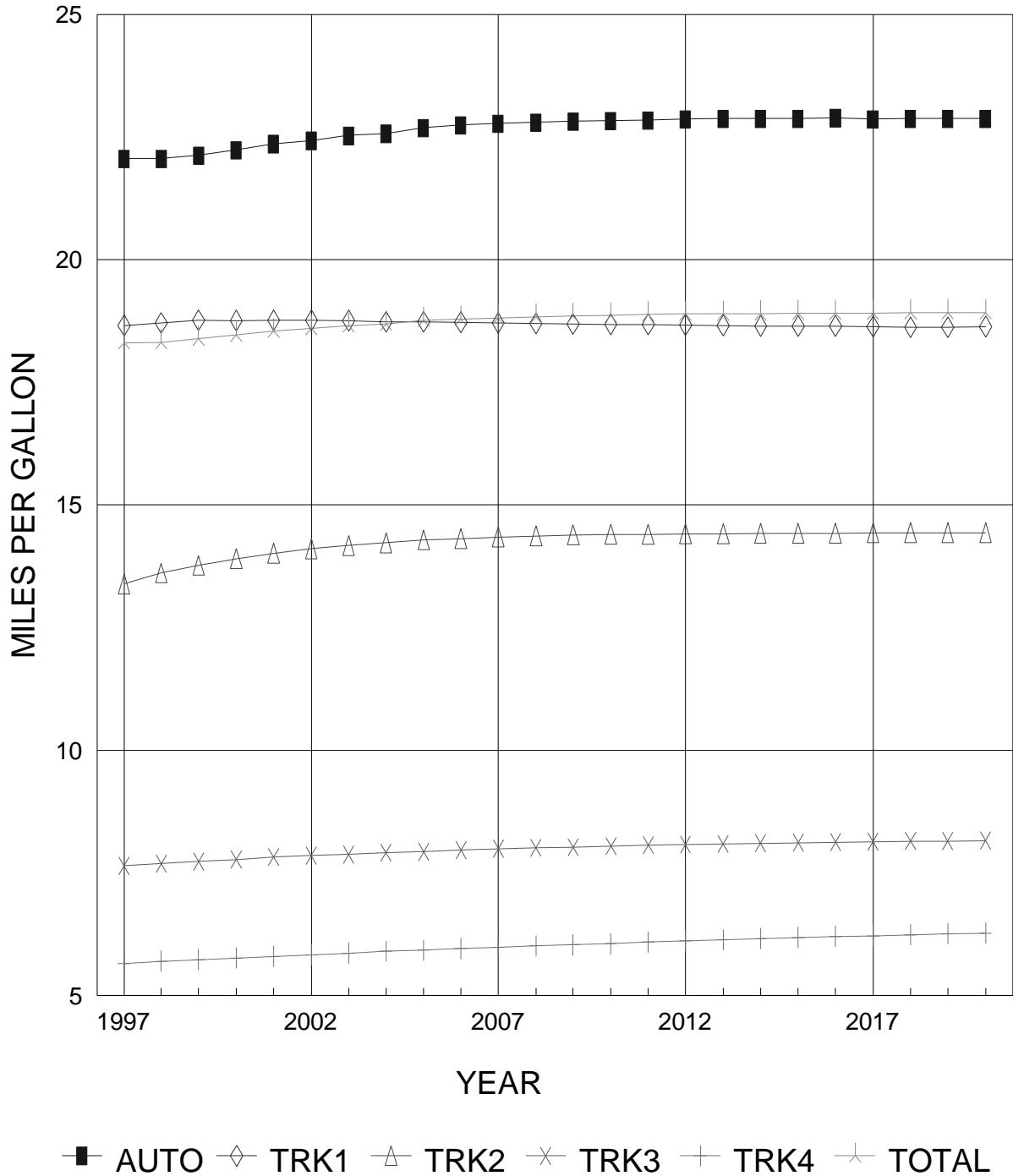
Fuel economies of the fleet, stratified by body type and fuel type for each year of the forecast, are given in Table-4. Vehicle fuel economy is projected to continuously improve for all strata of vehicles. The greatest improvements are being projected for the heavy trucks. Fuel economy of year 2020 automobile fleet will be slightly (3.74 percent) better than it was in 1997; while the total vehicle fleet fuel economy will be only 3.38 percent better than it was in 1997.

Figure-15 graphs the fuel economy of the vehicle fleet stratified by body type for the years 1997 to 2020. The graphs correspond to the data given in the upper part of Table-4. Although the fuel economy of motorcycles (assumed to be a constant value of 50.0 miles per gallon) is not shown in the figure, its effect is included in the "Total" graph.

Table-4: CALIFORNIA TOTAL VEHICLE FLEET FUEL ECONOMY

| VEH. TYPE       | CAL. YEAR | AUTOS  | BODY TYPE |        |       |       | M.C    | TOTAL  |
|-----------------|-----------|--------|-----------|--------|-------|-------|--------|--------|
|                 |           |        | TRK1      | TRK2   | TRK3  | TRK4  |        |        |
| T O T A L       | 1997      | 22.052 | 18.652    | 13.384 | 7.641 | 5.651 | 50.000 | 18.300 |
|                 | 1998      | 22.053 | 18.707    | 13.609 | 7.687 | 5.691 | 50.000 | 18.319 |
|                 | 1999      | 22.122 | 18.765    | 13.768 | 7.733 | 5.725 | 50.000 | 18.381 |
|                 | 2000      | 22.236 | 18.759    | 13.898 | 7.773 | 5.760 | 50.000 | 18.460 |
|                 | 2001      | 22.354 | 18.770    | 14.016 | 7.814 | 5.795 | 50.000 | 18.546 |
|                 | 2002      | 22.421 | 18.764    | 14.104 | 7.849 | 5.830 | 50.000 | 18.595 |
|                 | 2003      | 22.522 | 18.753    | 14.172 | 7.878 | 5.859 | 50.000 | 18.655 |
|                 | 2004      | 22.574 | 18.729    | 14.225 | 7.911 | 5.894 | 50.000 | 18.691 |
|                 | 2005      | 22.690 | 18.734    | 14.280 | 7.935 | 5.924 | 50.000 | 18.761 |
|                 | 2006      | 22.742 | 18.721    | 14.312 | 7.960 | 5.954 | 50.000 | 18.793 |
|                 | 2007      | 22.770 | 18.709    | 14.343 | 7.982 | 5.978 | 50.000 | 18.814 |
|                 | 2008      | 22.794 | 18.700    | 14.363 | 8.004 | 6.008 | 50.000 | 18.833 |
|                 | 2009      | 22.815 | 18.688    | 14.381 | 8.021 | 6.033 | 50.000 | 18.848 |
|                 | 2010      | 22.828 | 18.676    | 14.394 | 8.042 | 6.058 | 50.000 | 18.859 |
|                 | 2011      | 22.847 | 18.671    | 14.403 | 8.059 | 6.083 | 50.000 | 18.874 |
| G A S O L I N E | 2015      | 22.876 | 18.642    | 14.421 | 8.108 | 6.177 | 50.000 | 18.907 |
|                 | 2020      | 22.876 | 18.634    | 14.426 | 8.152 | 6.271 | 50.000 | 18.921 |
|                 | 1997      | 22.020 | 18.635    | 13.027 | 7.032 | 5.616 | 50.000 | 20.126 |
|                 | 1998      | 22.025 | 18.693    | 13.277 | 7.075 | 5.647 | 50.000 | 20.163 |
|                 | 1999      | 22.098 | 18.754    | 13.456 | 7.118 | 5.669 | 50.000 | 20.240 |
|                 | 2000      | 22.215 | 18.750    | 13.603 | 7.161 | 5.693 | 50.000 | 20.331 |
|                 | 2001      | 22.336 | 18.763    | 13.737 | 7.204 | 5.715 | 50.000 | 20.425 |
|                 | 2002      | 22.404 | 18.758    | 13.838 | 7.247 | 5.735 | 50.000 | 20.476 |
|                 | 2003      | 22.506 | 18.748    | 13.918 | 7.284 | 5.748 | 50.000 | 20.547 |
|                 | 2004      | 22.561 | 18.725    | 13.979 | 7.320 | 5.767 | 50.000 | 20.582 |
|                 | 2005      | 22.677 | 18.731    | 14.042 | 7.357 | 5.776 | 50.000 | 20.663 |
|                 | 2006      | 22.731 | 18.718    | 14.080 | 7.382 | 5.785 | 50.000 | 20.697 |
|                 | 2007      | 22.759 | 18.708    | 14.115 | 7.412 | 5.794 | 50.000 | 20.717 |
|                 | 2008      | 22.783 | 18.699    | 14.138 | 7.443 | 5.803 | 50.000 | 20.733 |
|                 | 2009      | 22.803 | 18.687    | 14.159 | 7.474 | 5.813 | 50.000 | 20.747 |
|                 | 2010      | 22.818 | 18.675    | 14.173 | 7.498 | 5.823 | 50.000 | 20.755 |
|                 | 2011      | 22.838 | 18.670    | 14.183 | 7.529 | 5.827 | 50.000 | 20.770 |
| D I E S E L     | 2015      | 22.867 | 18.641    | 14.203 | 7.615 | 5.846 | 50.000 | 20.789 |
|                 | 2020      | 22.867 | 18.633    | 14.209 | 7.701 | 5.859 | 50.000 | 20.794 |
|                 | 1997      | 26.710 | 23.252    | 18.403 | 7.826 | 5.651 | 0.000  | 7.725  |
|                 | 1998      | 26.808 | 23.281    | 18.236 | 7.870 | 5.691 | 0.000  | 7.669  |
|                 | 1999      | 26.903 | 23.308    | 18.101 | 7.915 | 5.725 | 0.000  | 7.632  |
|                 | 2000      | 27.014 | 23.334    | 17.986 | 7.953 | 5.760 | 0.000  | 7.608  |
|                 | 2001      | 27.081 | 23.366    | 17.885 | 7.991 | 5.795 | 0.000  | 7.594  |
|                 | 2002      | 27.337 | 23.402    | 17.804 | 8.023 | 5.830 | 0.000  | 7.585  |
|                 | 2003      | 27.363 | 23.487    | 17.734 | 8.048 | 5.860 | 0.000  | 7.575  |
|                 | 2004      | 27.344 | 23.486    | 17.675 | 8.080 | 5.894 | 0.000  | 7.577  |
|                 | 2005      | 27.667 | 23.431    | 17.629 | 8.099 | 5.924 | 0.000  | 7.578  |
|                 | 2006      | 27.721 | 26.456    | 17.592 | 8.124 | 5.954 | 0.000  | 7.585  |
|                 | 2007      | 27.869 | 24.004    | 17.564 | 8.143 | 5.979 | 0.000  | 7.591  |
|                 | 2008      | 28.015 | 23.994    | 17.543 | 8.162 | 6.009 | 0.000  | 7.604  |
|                 | 2009      | 28.577 | 24.007    | 17.530 | 8.175 | 6.034 | 0.000  | 7.615  |
|                 | 2010      | 28.635 | 24.005    | 17.520 | 8.194 | 6.058 | 0.000  | 7.629  |
|                 | 2011      | 27.684 | 23.986    | 17.512 | 8.207 | 6.083 | 0.000  | 7.641  |
|                 | 2015      | 28.430 | 23.998    | 17.503 | 8.245 | 6.178 | 0.000  | 7.697  |
|                 | 2020      | 28.320 | 23.981    | 17.499 | 8.276 | 6.272 | 0.000  | 7.757  |

Figure-15  
CALIFORNIA VEHICLE FLEET FUEL ECONOMY BY BODY TYPE



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## APPENDIX A

### Vehicle Body Type Definitions:

The motor vehicle fleet is stratified into six classes by body type, one class of autos, four classes of trucks by gross vehicle weight and one class of motorcycles. These are defined as follows:

- AUTOS    AUTOS include all passenger vehicles registered as regular autos and station wagons.
- TRK1    TRK1 includes all Truck Gross Vehicle Weight Class 1 trucks (GVW 0 to 6,000 lbs.)
- TRK2    TRK2 includes all Truck Gross Vehicle Weight Class 2 trucks (GVW 6,001 to 10,000 lbs.)
- TRK3    TRK3 includes trucks of Truck Gross Vehicle Weight Classes 3 (GVW 10,001 to 14,000 lbs.), 4 (GVW 14,001 to 16,000 lbs.), 5 (GVW 16,001 to 19,500 lbs.), 6 (GVW 19,501 to 26,000 lbs.), and 7 (GVW 26,001 to 33,000 lbs.)
- TRK4    TRK4 includes all trucks of Truck Gross Vehicle Weight Classes 8 and above (GVW 33,001+ lbs.)
- MC       MC includes all registered motorcycles which excludes motor-bicycles and off-road motor-powered dirt bikes.

## APPENDIX B

### CALIFORNIA VEHICLE MILES/KILOMETERS OF TRAVEL BY COUNTY AND ROAD SYSTEM

**1990 ANNUAL STATEWIDE VMT DISTRIBUTION BY COUNTY (MILLIONS)**

| COUNTY          | SHS               | OTHER             | TOTAL             |
|-----------------|-------------------|-------------------|-------------------|
| ALPINE          | 7152.000          | 4279.340          | 11431.340         |
| ALPINE          | 41.000            | 7.262             | 48.262            |
| AMADOR          | 223.000           | 61.620            | 284.620           |
| BUTTE           | 540.000           | 915.457           | 1455.457          |
| CALAVERAS       | 215.000           | 89.559            | 304.559           |
| COLUSA          | 347.000           | 102.236           | 449.236           |
| CONTRA COSTA    | 3445.000          | 3246.368          | 6691.368          |
| DEL NORTE       | 150.000           | 61.124            | 211.124           |
| EL DORADO       | 757.000           | 474.890           | 1231.890          |
| FRESNO          | 2066.000          | 3172.677          | 5238.677          |
| GLENN           | 290.000           | 91.583            | 381.583           |
| HUMBOLDT        | 661.000           | 408.296           | 1069.296          |
| IMPERIAL        | 800.000           | 452.897           | 1252.897          |
| INYO            | 382.000           | 65.501            | 447.501           |
| KERN            | 3275.000          | 2022.720          | 5297.720          |
| KINGS           | 489.000           | 417.384           | 906.384           |
| LAKE            | 256.000           | 120.888           | 376.888           |
| LASSEN          | 265.000           | 200.682           | 465.682           |
| LOS ANGELES     | 34243.000         | 37622.039         | 71865.040         |
| MADERA          | 655.000           | 281.274           | 936.274           |
| MARIN           | 1409.000          | 1082.729          | 2491.729          |
| MARIPOSA        | 105.000           | 103.366           | 208.366           |
| MENDOCINO       | 619.000           | 346.644           | 965.644           |
| MERCED          | 1289.000          | 470.881           | 1759.881          |
| MODOC           | 83.000            | 60.075            | 143.075           |
| MONO            | 276.000           | 24.399            | 300.399           |
| MONTEREY        | 1710.000          | 1372.504          | 3082.504          |
| NAPA            | 531.000           | 356.069           | 887.069           |
| NEVADA          | 565.000           | 308.774           | 873.774           |
| ORANGE          | 11304.000         | 11466.120         | 22770.120         |
| PLACER          | 1295.000          | 702.972           | 1997.972          |
| PLUMAS          | 160.000           | 99.828            | 259.828           |
| RIVERSIDE       | 7170.000          | 4289.729          | 11459.730         |
| SACRAMENTO      | 3771.000          | 5032.580          | 8803.580          |
| SAN BENITO      | 255.000           | 93.997            | 348.997           |
| SAN BERNARDINO  | 8593.000          | 4624.414          | 13217.410         |
| SAN DIEGO       | 12088.000         | 9415.592          | 21503.590         |
| SAN FRANCISCO   | 1441.000          | 2191.836          | 3632.836          |
| SAN JOAQUIN     | 2415.000          | 1931.905          | 4346.905          |
| SAN LUIS OBISPO | 1482.000          | 698.928           | 2180.928          |
| SAN MATEO       | 4212.000          | 2003.598          | 6215.598          |
| SANTA BARBARA   | 1963.000          | 1055.183          | 3018.183          |
| SANTA CLARA     | 5915.000          | 7116.808          | 13031.810         |
| SANTA CRUZ      | 892.000           | 846.475           | 1738.475          |
| SHASTA          | 973.000           | 614.108           | 1587.108          |
| SIERRA          | 60.000            | 29.915            | 89.915            |
| SISKIYOU        | 570.000           | 199.754           | 769.754           |
| SOLANO          | 2381.000          | 970.847           | 3351.847          |
| SONOMA          | 1605.000          | 1425.999          | 3030.999          |
| STANISLAUS      | 1268.000          | 1509.908          | 2777.908          |
| SUTTER          | 320.000           | 275.183           | 595.183           |
| TEHAMA          | 516.000           | 215.304           | 731.304           |
| TRINITY         | 117.000           | 25.272            | 142.272           |
| TULARE          | 1173.000          | 1300.106          | 2473.106          |
| TUOLUMNE        | 291.000           | 190.485           | 481.485           |
| VENTURA         | 2931.000          | 2464.488          | 5395.488          |
| YOLO            | 979.000           | 533.314           | 1512.314          |
| YUBA            | 230.000           | 250.136           | 480.136           |
| <b>TOTAL</b>    | <b>139209.000</b> | <b>119794.000</b> | <b>259003.000</b> |

**1990 ANNUAL STATEWIDE VKT DISTRIBUTION BY COUNTY (MILLIONS)**

| COUNTY          | SHS               | OTHER             | TOTAL             |
|-----------------|-------------------|-------------------|-------------------|
| ALAMEDA         | 11510.028         | 6886.930          | 18396.959         |
| ALPINE          | 65.983            | 11.687            | 77.670            |
| AMADOR          | 358.884           | 99.168            | 458.051           |
| BUTTE           | 869.046           | 1473.285          | 2342.331          |
| CALAVERAS       | 346.009           | 144.131           | 490.140           |
| COLUSA          | 558.442           | 164.533           | 722.975           |
| CONTRA COSTA    | 5544.190          | 5224.523          | 10768.713         |
| DEL NORTE       | 241.402           | 98.370            | 339.771           |
| EL DORADO       | 1218.273          | 764.261           | 1982.535          |
| FRESNO          | 3324.905          | 5105.929          | 8430.833          |
| GLENN           | 466.710           | 147.389           | 614.098           |
| HUMBOLDT        | 1063.776          | 657.089           | 1720.865          |
| IMPERIAL        | 1287.475          | 728.867           | 2016.342          |
| INYO            | 614.769           | 105.414           | 720.183           |
| KERN            | 5270.602          | 3255.252          | 8525.854          |
| KINGS           | 786.969           | 671.714           | 1458.684          |
| LAKE            | 411.992           | 194.550           | 606.542           |
| LASSEN          | 426.476           | 322.966           | 749.443           |
| LOS ANGELES     | 55108.766         | 60546.805         | 115655.571        |
| MADERA          | 1054.120          | 452.667           | 1506.787          |
| MARIN           | 2267.566          | 1742.483          | 4010.049          |
| MARIPOSA        | 168.981           | 166.351           | 335.333           |
| MENDOCINO       | 996.184           | 557.869           | 1554.053          |
| MERCED          | 2074.444          | 757.810           | 2832.254          |
| MODOC           | 133.576           | 96.681            | 230.257           |
| MONO            | 444.179           | 39.266            | 483.445           |
| MONTEREY        | 2751.978          | 2208.831          | 4960.809          |
| NAPA            | 854.562           | 573.038           | 1427.599          |
| NEVADA          | 909.279           | 496.924           | 1406.203          |
| ORANGE          | 18192.025         | 18452.932         | 36644.956         |
| PLACER          | 2084.101          | 1131.324          | 3215.424          |
| PLUMAS          | 257.495           | 160.658           | 418.153           |
| RIVERSIDE       | 11538.996         | 6903.649          | 18442.648         |
| SACRAMENTO      | 6068.836          | 8099.152          | 14167.989         |
| SAN BENITO      | 410.383           | 151.274           | 561.656           |
| SAN BERNARDINO  | 13829.093         | 7442.273          | 21271.360         |
| SAN DIEGO       | 19453.750         | 15152.927         | 34606.674         |
| SAN FRANCISCO   | 2319.065          | 3527.418          | 5846.483          |
| SAN JOAQUIN     | 3886.566          | 3109.100          | 6995.666          |
| SAN LUIS OBISPO | 2385.048          | 1124.816          | 3509.863          |
| SAN MATEO       | 6778.557          | 3224.479          | 10003.035         |
| SANTA BARBARA   | 3159.142          | 1698.152          | 4857.295          |
| SANTA CLARA     | 9519.270          | 11453.393         | 20972.665         |
| SANTA CRUZ      | 1435.535          | 1362.269          | 2797.804          |
| SHASTA          | 1565.892          | 988.311           | 2554.203          |
| SIERRA          | 96.561            | 48.144            | 144.704           |
| SISKIYOU        | 917.326           | 321.473           | 1238.799          |
| SOLANO          | 3831.848          | 1562.427          | 5394.275          |
| SONOMA          | 2582.997          | 2294.923          | 4877.920          |
| STANISLAUS      | 2040.648          | 2429.961          | 4470.610          |
| SUTTER          | 514.990           | 442.864           | 957.854           |
| TEHAMA          | 830.422           | 346.498           | 1176.920          |
| TRINITY         | 188.293           | 40.671            | 228.965           |
| TULARE          | 1887.760          | 2092.318          | 3980.078          |
| TUOLUMNE        | 468.319           | 306.556           | 774.875           |
| VENTURA         | 4716.987          | 3966.209          | 8683.196          |
| YOLO            | 1575.548          | 858.286           | 2433.833          |
| YUBA            | 370.149           | 402.555           | 772.704           |
| <b>TOTAL</b>    | <b>224035.172</b> | <b>192789.750</b> | <b>416824.925</b> |

**1995 ANNUAL STATEWIDE VMT DISTRIBUTION BY COUNTY (MILLIONS)**

| COUNTY          | SHS               | OTHER             | TOTAL             |
|-----------------|-------------------|-------------------|-------------------|
| ALAMEDA         | 7446.094          | 4978.716          | 12424.810         |
| ALPINE          | 42.031            | 8.258             | 50.288            |
| AMADOR          | 245.670           | 84.153            | 329.823           |
| BUTTE           | 607.915           | 981.743           | 1589.659          |
| CALAVERAS       | 250.213           | 115.479           | 365.692           |
| COLUSA          | 392.990           | 109.167           | 502.157           |
| CONTRA COSTA    | 3643.810          | 3466.372          | 7110.182          |
| DEL NORTE       | 157.375           | 67.824            | 225.199           |
| EL DORADO       | 802.615           | 660.853           | 1463.468          |
| FRESNO          | 2349.317          | 3697.812          | 6047.128          |
| GLENN           | 322.618           | 120.538           | 443.156           |
| HUMBOLDT        | 686.710           | 442.605           | 1129.314          |
| IMPERIAL        | 880.310           | 502.488           | 1382.798          |
| INYO            | 373.176           | 72.673            | 445.849           |
| KERN            | 3692.823          | 2365.436          | 6058.259          |
| KINGS           | 517.071           | 450.224           | 967.295           |
| LAKE            | 298.372           | 159.667           | 458.039           |
| LASSEN          | 313.735           | 243.389           | 557.124           |
| LOS ANGELES     | 35077.895         | 38915.496         | 73993.391         |
| MADERA          | 778.416           | 345.037           | 1123.453          |
| MARIN           | 1433.790          | 1123.358          | 2557.148          |
| MARISPOSA       | 125.356           | 114.461           | 239.817           |
| MENDOCINO       | 646.967           | 419.624           | 1066.591          |
| MERCED          | 1349.182          | 740.422           | 2089.604          |
| MODOC           | 92.546            | 68.090            | 160.636           |
| MONO            | 251.333           | 26.732            | 278.064           |
| MONTEREY        | 1803.910          | 1421.387          | 3225.297          |
| NAPA            | 536.263           | 373.575           | 909.837           |
| NEVADA          | 634.526           | 344.081           | 978.607           |
| ORANGE          | 11224.334         | 11905.607         | 23129.941         |
| PLACER          | 1489.990          | 1039.482          | 2529.472          |
| PLUMAS          | 180.789           | 109.287           | 290.076           |
| RIVERSIDE       | 7380.951          | 4928.492          | 12309.442         |
| SACRAMENTO      | 4193.164          | 5100.004          | 9293.169          |
| SAN BENITO      | 285.832           | 119.000           | 404.832           |
| SAN BERNARDINO  | 9716.704          | 5973.938          | 15690.642         |
| SAN DIEGO       | 12603.485         | 10450.808         | 23054.293         |
| SAN FRANCISCO   | 1503.313          | 2221.684          | 3724.997          |
| SAN JOAQUIN     | 2818.117          | 2100.808          | 4918.925          |
| SAN LUIS OBISPO | 1557.005          | 767.077           | 2324.082          |
| SAN MATEO       | 4271.216          | 2162.862          | 6434.078          |
| SANTA BARBARA   | 2016.736          | 1165.377          | 3182.114          |
| SANTA CLARA     | 6202.178          | 7372.168          | 13574.347         |
| SANTA CRUZ      | 964.584           | 901.866           | 1866.449          |
| SHASTA          | 1076.579          | 674.745           | 1751.324          |
| SIERRA          | 57.836            | 28.706            | 86.542            |
| SISKIYOU        | 579.600           | 279.885           | 859.485           |
| SOLONO          | 2612.947          | 1109.651          | 3722.597          |
| SONOMA          | 1752.949          | 1604.533          | 3357.483          |
| STANISLAUS      | 1373.184          | 2049.389          | 3422.573          |
| SUTTER          | 370.762           | 303.935           | 674.697           |
| TEHAMA          | 553.252           | 235.268           | 788.520           |
| TRINITY         | 113.962           | 31.776            | 145.738           |
| TULARE          | 1341.240          | 1462.093          | 2803.333          |
| TUOLUMNE        | 293.840           | 210.761           | 504.601           |
| VENTURA         | 3117.036          | 2664.815          | 5781.852          |
| YOLO            | 1063.659          | 563.462           | 1627.121          |
| YUBA            | 246.729           | 295.853           | 542.581           |
| <b>TOTAL</b>    | <b>146715.016</b> | <b>130252.969</b> | <b>276968.000</b> |

**1995 ANNUAL STATEWIDE VKT DISTRIBUTION BY COUNTY (MILLIONS)**

| COUNTY          | SHS               | OTHER             | TOTAL             |
|-----------------|-------------------|-------------------|-------------------|
| ALAMEDA         | 11983.327         | 8012.467          | 19995.793         |
| ALPINE          | 67.642            | 13.290            | 80.931            |
| AMADOR          | 395.368           | 135.431           | 530.799           |
| BUTTE           | 978.344           | 1579.962          | 2558.308          |
| CALAVERAS       | 402.679           | 185.845           | 588.524           |
| COLUSA          | 632.456           | 175.687           | 808.143           |
| CONTRA COSTA    | 5864.144          | 5578.585          | 11442.729         |
| DEL NORTE       | 253.271           | 109.152           | 362.423           |
| EL DORADO       | 1291.684          | 1063.540          | 2355.223          |
| FRESNO          | 3780.859          | 5951.052          | 9731.909          |
| GLENN           | 519.203           | 193.987           | 713.190           |
| HUMBOLDT        | 1105.153          | 712.304           | 1817.455          |
| IMPERIAL        | 1416.722          | 808.676           | 2225.398          |
| INYO            | 600.569           | 116.956           | 717.524           |
| KERN            | 5943.022          | 3806.800          | 9749.823          |
| KINGS           | 832.145           | 724.565           | 1556.710          |
| LAKE            | 480.183           | 256.959           | 737.142           |
| LASSEN          | 504.908           | 391.697           | 896.604           |
| LOS ANGELES     | 56452.398         | 62628.422         | 119080.820        |
| MADERA          | 1252.739          | 555.283           | 1808.022          |
| MARIN           | 2307.461          | 1807.870          | 4115.331          |
| MARISPOSA       | 201.741           | 184.207           | 385.948           |
| MENDOCINO       | 1041.193          | 675.319           | 1716.512          |
| MERCED          | 2171.298          | 1191.594          | 3362.892          |
| MODOC           | 148.938           | 109.580           | 258.519           |
| MONO            | 404.481           | 43.021            | 447.501           |
| MONTEREY        | 2903.112          | 2287.501          | 5190.612          |
| NAPA            | 863.032           | 601.211           | 1464.241          |
| NEVADA          | 1021.171          | 553.745           | 1574.915          |
| ORANGE          | 18063.814         | 19160.217         | 37224.032         |
| PLACER          | 2397.906          | 1672.884          | 4070.791          |
| PLUMAS          | 290.952           | 175.880           | 466.832           |
| RIVERSIDE       | 11878.489         | 7931.639          | 19810.127         |
| SACRAMENTO      | 6748.243          | 8207.661          | 14955.906         |
| SAN BENITO      | 460.002           | 191.512           | 651.514           |
| SAN BERNARDINO  | 15637.520         | 9614.121          | 25251.641         |
| SAN DIEGO       | 20283.344         | 16818.945         | 37102.288         |
| SAN FRANCISCO   | 2419.348          | 3575.454          | 5994.802          |
| SAN JOAQUIN     | 4535.320          | 3380.923          | 7916.242          |
| SAN LUIS OBISPO | 2505.757          | 1234.491          | 3740.247          |
| SAN MATEO       | 6873.856          | 3480.789          | 10354.645         |
| SANTA BARBARA   | 3245.622          | 1875.492          | 5121.116          |
| SANTA CLARA     | 9981.438          | 11864.354         | 21845.794         |
| SANTA CRUZ      | 1552.348          | 1451.413          | 3003.759          |
| SHASTA          | 1732.586          | 1085.897          | 2818.483          |
| SIERRA          | 93.078            | 46.198            | 139.276           |
| SISKIYOU        | 932.776           | 450.431           | 1383.207          |
| SOLONO          | 4205.130          | 1785.810          | 5990.939          |
| SONOMA          | 2821.098          | 2582.246          | 5403.345          |
| STANISLAUS      | 2209.926          | 3298.172          | 5508.097          |
| SUTTER          | 596.684           | 489.136           | 1085.820          |
| TEHAMA          | 890.373           | 378.627           | 1269.000          |
| TRINITY         | 183.404           | 51.139            | 234.543           |
| TULARE          | 2158.517          | 2353.010          | 4511.527          |
| TUOLUMNE        | 472.890           | 339.187           | 812.077           |
| VENTURA         | 5016.383          | 4288.604          | 9304.989          |
| YOLO            | 1711.793          | 906.804           | 2618.597          |
| YUBA            | 397.072           | 476.129           | 873.199           |
| <b>TOTAL</b>    | <b>236114.938</b> | <b>209621.828</b> | <b>445736.791</b> |

**1997 ANNUAL STATEWIDE VMT DISTRIBUTION BY COUNTY (MILLIONS)**

| COUNTY          | SHS               | OTHER             | TOTAL             |
|-----------------|-------------------|-------------------|-------------------|
| ALAMEDA         | 7892.000          | 4819.288          | 12711.288         |
| ALPINE          | 46.000            | 8.064             | 54.064            |
| AMADOR          | 243.000           | 83.629            | 326.629           |
| BUTTE           | 606.000           | 935.844           | 1541.844          |
| CALAVERAS       | 240.000           | 114.478           | 354.478           |
| COLUSA          | 405.000           | 95.437            | 500.437           |
| CONTRA COSTA    | 4044.000          | 3439.309          | 7483.309          |
| DEL NORTE       | 145.000           | 68.435            | 213.435           |
| EL DORADO       | 787.000           | 680.716           | 1467.716          |
| FRESNO          | 2348.000          | 3694.485          | 6042.485          |
| GLENN           | 304.000           | 103.563           | 407.563           |
| HUMBOLDT        | 692.000           | 446.067           | 1138.067          |
| IMPERIAL        | 949.000           | 459.583           | 1408.583          |
| INYO            | 384.000           | 72.310            | 456.310           |
| KERN            | 3764.000          | 2420.875          | 6184.875          |
| KINGS           | 559.000           | 440.453           | 999.453           |
| LAKE            | 296.000           | 170.422           | 466.422           |
| LASSEN          | 308.000           | 243.529           | 551.529           |
| LOS ANGELES     | 36439.000         | 40350.762         | 76789.766         |
| MADERA          | 829.000           | 341.657           | 1170.657          |
| MARIN           | 1454.000          | 1075.725          | 2529.725          |
| MARIPOSA        | 113.000           | 113.102           | 226.102           |
| MENDOCINO       | 682.000           | 390.282           | 1072.282          |
| MERCED          | 1378.000          | 721.709           | 2099.709          |
| MODOC           | 89.000            | 67.896            | 156.896           |
| MONO            | 243.000           | 26.234            | 269.234           |
| MONTEREY        | 1904.000          | 1445.171          | 3349.171          |
| NAPA            | 608.000           | 394.607           | 1002.607          |
| NEVADA          | 656.000           | 341.133           | 997.133           |
| ORANGE          | 11641.000         | 11906.545         | 23547.545         |
| PLACER          | 1571.000          | 1050.202          | 2621.202          |
| PLUMAS          | 179.000           | 131.825           | 310.825           |
| RIVERSIDE       | 7838.000          | 5110.979          | 12948.979         |
| SACRAMENTO      | 4365.000          | 5433.362          | 9798.361          |
| SAN BENITO      | 290.000           | 118.906           | 408.906           |
| SAN BERNARDINO  | 9840.000          | 5818.932          | 15658.932         |
| SAN DIEGO       | 13266.000         | 10670.063         | 23936.063         |
| SAN FRANCISCO   | 1472.000          | 2106.031          | 3578.032          |
| SAN JOAQUIN     | 2909.000          | 2111.930          | 5020.931          |
| SAN LUIS OBISPO | 1661.000          | 767.491           | 2428.491          |
| SAN MATEO       | 4589.000          | 2175.998          | 6764.998          |
| SANTA BARBARA   | 2100.000          | 1177.264          | 3277.264          |
| SANTA CLARA     | 6963.000          | 7140.644          | 14103.645         |
| SANTA CRUZ      | 939.000           | 936.665           | 1875.666          |
| SHASTA          | 1041.000          | 732.122           | 1773.122          |
| SIERRA          | 65.000            | 28.475            | 93.475            |
| SISKIYOU        | 548.000           | 210.548           | 758.548           |
| SOLANO          | 2898.000          | 1122.745          | 4020.745          |
| SONOMA          | 1718.000          | 1624.688          | 3342.688          |
| STANISLAUS      | 1383.000          | 2008.550          | 3391.550          |
| SUTTER          | 388.000           | 311.784           | 699.784           |
| TEHAMA          | 534.000           | 226.785           | 760.785           |
| TRINITY         | 119.000           | 31.170            | 150.170           |
| TULARE          | 1509.000          | 1443.404          | 2952.404          |
| TUOLUMNE        | 269.000           | 209.667           | 478.667           |
| VENTURA         | 3264.000          | 2626.739          | 5890.738          |
| YOLO            | 1124.000          | 573.808           | 1697.808          |
| YUBA            | 256.000           | 304.921           | 560.921           |
| <b>TOTAL</b>    | <b>153146.000</b> | <b>131677.000</b> | <b>284823.031</b> |

**1997 ANNUAL STATEWIDE VKT DISTRIBUTION BY COUNTY (MILLIONS)**

| COUNTY          | SHS               | OTHER             | TOTAL             |
|-----------------|-------------------|-------------------|-------------------|
| ALAMEDA         | 12700.943         | 7755.892          | 20456.835         |
| ALPINE          | 74.030            | 12.978            | 87.008            |
| AMADOR          | 391.071           | 134.588           | 525.658           |
| BUTTE           | 975.262           | 1506.095          | 2481.357          |
| CALAVERAS       | 386.243           | 184.234           | 570.477           |
| COLUSA          | 651.784           | 153.591           | 805.375           |
| CONTRA COSTA    | 6508.187          | 5535.031          | 12043.218         |
| DEL NORTE       | 233.355           | 110.135           | 343.490           |
| EL DORADO       | 1266.554          | 1095.506          | 2362.060          |
| FRESNO          | 3778.740          | 5945.697          | 9724.437          |
| GLENN           | 489.241           | 166.668           | 655.909           |
| HUMBOLDT        | 1113.666          | 717.875           | 1831.541          |
| IMPERIAL        | 1527.267          | 739.627           | 2266.895          |
| INYO            | 617.988           | 116.372           | 734.360           |
| KERN            | 6057.571          | 3896.021          | 9953.592          |
| KINGS           | 899.623           | 708.840           | 1608.464          |
| LAKE            | 476.366           | 274.268           | 750.633           |
| LASSEN          | 495.678           | 391.922           | 887.600           |
| LOS ANGELES     | 58642.887         | 64938.258         | 123581.150        |
| MADERA          | 1334.146          | 549.844           | 1883.990          |
| MARIN           | 2339.986          | 1731.212          | 4071.198          |
| MARIPOSA        | 181.856           | 182.020           | 363.876           |
| MENDOCINO       | 1097.573          | 628.098           | 1725.671          |
| MERCED          | 2217.676          | 1161.478          | 3379.154          |
| MODOC           | 143.232           | 109.268           | 252.500           |
| MONO            | 391.071           | 42.220            | 433.290           |
| MONTEREY        | 3064.191          | 2325.777          | 5389.968          |
| NAPA            | 978.481           | 635.058           | 1613.540          |
| NEVADA          | 1055.730          | 549.000           | 1604.730          |
| ORANGE          | 18734.373         | 19161.727         | 37896.100         |
| PLACER          | 2528.280          | 1690.136          | 4218.416          |
| PLUMAS          | 288.073           | 212.152           | 500.224           |
| RIVERSIDE       | 12614.038         | 8225.323          | 20839.362         |
| SACRAMENTO      | 7024.787          | 8744.148          | 15768.934         |
| SAN BENITO      | 466.710           | 191.361           | 658.070           |
| SAN BERNARDINO  | 15835.945         | 9364.663          | 25200.608         |
| SAN DIEGO       | 21349.557         | 17171.803         | 38521.360         |
| SAN FRANCISCO   | 2368.954          | 3389.328          | 5758.284          |
| SAN JOAQUIN     | 4681.582          | 3398.822          | 8080.405          |
| SAN LUIS OBISPO | 2673.120          | 1235.157          | 3908.277          |
| SAN MATEO       | 7385.280          | 3501.929          | 10887.209         |
| SANTA BARBARA   | 3379.622          | 1894.623          | 5274.245          |
| SANTA CLARA     | 11205.862         | 11491.753         | 22697.617         |
| SANTA CRUZ      | 1511.174          | 1507.416          | 3018.592          |
| SHASTA          | 1675.327          | 1178.236          | 2853.563          |
| SIERRA          | 104.607           | 45.826            | 150.433           |
| SISKIYOU        | 881.921           | 338.844           | 1220.765          |
| SOLANO          | 4663.879          | 1806.883          | 6470.762          |
| SONOMA          | 2764.853          | 2614.682          | 5379.535          |
| STANISLAUS      | 2225.723          | 3232.448          | 5458.171          |
| SUTTER          | 624.425           | 501.768           | 1126.193          |
| TEHAMA          | 859.390           | 364.975           | 1224.365          |
| TRINITY         | 191.512           | 50.163            | 241.675           |
| TULARE          | 2428.500          | 2322.934          | 4751.434          |
| TUOLUMNE        | 432.914           | 337.426           | 770.340           |
| VENTURA         | 5252.899          | 4227.327          | 9480.224          |
| YOLO            | 1808.903          | 923.454           | 2732.357          |
| YUBA            | 411.992           | 490.723           | 902.715           |
| <b>TOTAL</b>    | <b>246464.594</b> | <b>211913.594</b> | <b>458378.238</b> |

**2000 ANNUAL STATEWIDE VMT DISTRIBUTION BY COUNTY (MILLIONS)**

| COUNTY          | SHS        | OTHER      | TOTAL      |
|-----------------|------------|------------|------------|
| ALAMEDA         | 8293.140   | 5074.459   | 13367.599  |
| ALPINE          | 50.085     | 8.798      | 58.883     |
| AMADOR          | 272.141    | 93.846     | 365.988    |
| BUTTE           | 654.299    | 1012.471   | 1666.770   |
| CALAVERAS       | 276.912    | 132.352    | 409.264    |
| COLUSA          | 445.836    | 105.272    | 551.109    |
| CONTRA COSTA    | 4309.255   | 3672.292   | 7981.546   |
| DEL NORTE       | 161.113    | 76.193     | 237.305    |
| EL DORADO       | 864.566    | 749.315    | 1613.881   |
| FRESNO          | 2625.082   | 4138.792   | 6763.874   |
| GLENN           | 333.338    | 113.787    | 447.125    |
| HUMBOLDT        | 729.849    | 471.414    | 1201.263   |
| IMPERIAL        | 1031.557   | 500.571    | 1532.128   |
| INYO            | 414.162    | 78.147     | 492.309    |
| KERN            | 4207.995   | 2711.895   | 6919.890   |
| KINGS           | 616.090    | 486.416    | 1102.506   |
| LAKE            | 327.699    | 189.053    | 516.752    |
| LASSEN          | 327.230    | 259.255    | 586.484    |
| LOS ANGELES     | 38859.461  | 43117.844  | 81977.305  |
| MADERA          | 919.616    | 379.767    | 1299.383   |
| MARIN           | 1489.462   | 1104.183   | 2593.645   |
| MARIPOSA        | 124.035    | 124.398    | 248.434    |
| MENDOCINO       | 737.887    | 423.115    | 1161.003   |
| MERCED          | 1536.455   | 806.320    | 2342.775   |
| MODOC           | 94.805     | 72.470     | 167.275    |
| MONO            | 267.809    | 28.971     | 296.780    |
| MONTEREY        | 2055.608   | 1563.391   | 3618.999   |
| NAPA            | 641.216    | 417.004    | 1058.220   |
| NEVADA          | 725.035    | 377.793    | 1102.828   |
| ORANGE          | 12261.895  | 12566.894  | 24828.789  |
| PLACER          | 1726.354   | 1156.382   | 2882.736   |
| PLUMAS          | 188.563    | 139.148    | 327.711    |
| RIVERSIDE       | 8840.105   | 5776.053   | 14616.159  |
| SACRAMENTO      | 4728.758   | 5898.022   | 10626.780  |
| SAN BENITO      | 322.694    | 132.578    | 455.272    |
| SAN BERNARDINO  | 10992.300  | 6513.459   | 17505.760  |
| SAN DIEGO       | 14236.532  | 11473.771  | 25710.303  |
| SAN FRANCISCO   | 1519.811   | 2178.821   | 3698.631   |
| SAN JOAQUIN     | 3199.928   | 2327.829   | 5527.757   |
| SAN LUIS OBISPO | 1786.940   | 827.349    | 2614.289   |
| SAN MATEO       | 4806.106   | 2283.541   | 7089.646   |
| SANTA BARBARA   | 2231.273   | 1253.378   | 3484.651   |
| SANTA CLARA     | 7328.448   | 7530.571   | 14859.020  |
| SANTA CRUZ      | 999.387    | 998.913    | 1998.299   |
| SHASTA          | 1126.913   | 794.141    | 1921.054   |
| SIERRA          | 68.086     | 29.887     | 97.973     |
| SISKIYOU        | 582.191    | 224.135    | 806.327    |
| SOLANO          | 3134.321   | 1216.750   | 4351.071   |
| SONOMA          | 1828.270   | 1732.456   | 3560.726   |
| STANISLAUS      | 1539.970   | 2241.030   | 3781.000   |
| SUTTER          | 439.603    | 353.963    | 793.566    |
| TEHAMA          | 573.029    | 243.851    | 816.880    |
| TRINITY         | 126.741    | 33.264     | 160.005    |
| TULARE          | 1660.372   | 1591.399   | 3251.771   |
| TUOLUMNE        | 295.195    | 230.548    | 525.743    |
| VENTURA         | 3503.520   | 2825.180   | 6328.700   |
| YOLO            | 1235.806   | 632.157    | 1867.963   |
| YUBA            | 283.159    | 337.950    | 621.109    |
| TOTAL           | 164958.016 | 141833.016 | 306790.969 |

**2000 ANNUAL STATEWIDE VKT DISTRIBUTION BY COUNTY (MILLIONS)**

| COUNTY          | SHS               | OTHER             | TOTAL             |
|-----------------|-------------------|-------------------|-------------------|
| ALAMEDA         | 13346.516         | 8166.550          | 21513.065         |
| ALPINE          | 80.604            | 14.159            | 94.763            |
| AMADOR          | 437.968           | 151.031           | 589.001           |
| BUTTE           | 1052.992          | 1629.414          | 2682.406          |
| CALAVERAS       | 445.647           | 213.000           | 658.647           |
| COLUSA          | 717.503           | 169.419           | 886.924           |
| CONTRA COSTA    | 6935.074          | 5909.981          | 12845.053         |
| DEL NORTE       | 259.286           | 122.621           | 381.905           |
| EL DORADO       | 1391.384          | 1205.906          | 2597.290          |
| FRESNO          | 4224.660          | 6660.740          | 10885.400         |
| GLENN           | 536.456           | 183.122           | 719.578           |
| HUMBOLDT        | 1174.578          | 758.667           | 1933.245          |
| IMPERIAL        | 1660.130          | 805.591           | 2465.721          |
| INYO            | 666.529           | 125.765           | 792.295           |
| KERN            | 6772.111          | 4364.372          | 11136.483         |
| KINGS           | 991.501           | 782.811           | 1774.311          |
| LAKE            | 527.380           | 304.251           | 831.632           |
| LASSEN          | 526.626           | 417.230           | 943.855           |
| LOS ANGELES     | 62538.242         | 69391.445         | 131929.684        |
| MADERA          | 1479.979          | 611.176           | 2091.154          |
| MARIN           | 2397.057          | 1777.010          | 4174.067          |
| MARIPOSA        | 199.615           | 200.199           | 399.816           |
| MENDOCINO       | 1187.514          | 680.938           | 1868.453          |
| MERCED          | 2472.685          | 1297.646          | 3770.331          |
| MODOC           | 152.574           | 116.629           | 269.203           |
| MONO            | 430.997           | 46.624            | 477.621           |
| MONTEREY        | 3308.180          | 2516.034          | 5824.214          |
| NAPA            | 1031.937          | 671.103           | 1703.040          |
| NEVADA          | 1166.831          | 607.999           | 1774.830          |
| ORANGE          | 19733.607         | 20224.455         | 39958.063         |
| PLACER          | 2778.297          | 1861.016          | 4639.314          |
| PLUMAS          | 303.463           | 223.937           | 527.400           |
| RIVERSIDE       | 14226.770         | 9295.656          | 23522.428         |
| SACRAMENTO      | 7610.198          | 9491.946          | 17102.145         |
| SAN BENITO      | 519.326           | 213.364           | 732.689           |
| SAN BERNARDINO  | 17690.393         | 10482.396         | 28172.790         |
| SAN DIEGO       | 22911.477         | 18465.244         | 41376.722         |
| SAN FRANCISCO   | 2445.899          | 3506.472          | 5952.370          |
| SAN JOAQUIN     | 5149.785          | 3746.278          | 8896.063          |
| SAN LUIS OBISPO | 2875.801          | 1331.489          | 4207.290          |
| SAN MATEO       | 7734.678          | 3675.003          | 11409.679         |
| SANTA BARBARA   | 3590.886          | 2017.116          | 5608.002          |
| SANTA CLARA     | 11793.994         | 12119.279         | 23913.275         |
| SANTA CRUZ      | 1608.357          | 1607.595          | 3215.951          |
| SHASTA          | 1813.591          | 1278.046          | 3091.637          |
| SIERRA          | 109.574           | 48.098            | 157.672           |
| SISKIYOU        | 936.946           | 360.710           | 1297.658          |
| SOLANO          | 5044.201          | 1958.169          | 7002.370          |
| SONOMA          | 2942.315          | 2788.118          | 5730.433          |
| STANISLAUS      | 2478.342          | 3606.588          | 6084.930          |
| SUTTER          | 707.472           | 569.648           | 1277.121          |
| TEHAMA          | 922.201           | 392.440           | 1314.641          |
| TRINITY         | 203.970           | 53.533            | 257.503           |
| TULARE          | 2672.110          | 2561.108          | 5233.218          |
| TUOLUMNE        | 475.070           | 371.031           | 846.101           |
| VENTURA         | 5638.369          | 4546.687          | 10185.055         |
| YOLO            | 1988.837          | 1017.358          | 3006.195          |
| YUBA            | 455.700           | 543.878           | 999.578           |
| <b>TOTAL</b>    | <b>265474.188</b> | <b>228258.109</b> | <b>493732.207</b> |

**2005 ANNUAL STATEWIDE VMT DISTRIBUTION BY COUNTY (MILLIONS)**

| COUNTY          | SHS               | OTHER             | TOTAL             |
|-----------------|-------------------|-------------------|-------------------|
| ALAMEDA         | 8944.918          | 5492.360          | 14437.278         |
| ALPINE          | 57.314            | 10.103            | 67.417            |
| AMADOR          | 326.396           | 112.948           | 439.345           |
| BUTTE           | 738.336           | 1146.494          | 1884.829          |
| CALAVERAS       | 349.032           | 167.403           | 516.435           |
| COLUSA          | 519.614           | 123.121           | 642.734           |
| CONTRA COSTA    | 4757.272          | 4068.225          | 8825.497          |
| DEL NORTE       | 190.709           | 90.503            | 281.212           |
| EL DORADO       | 1004.172          | 873.346           | 1877.518          |
| FRESNO          | 3139.459          | 4967.039          | 8106.498          |
| GLENN           | 385.960           | 132.209           | 518.169           |
| HUMBOLDT        | 792.044           | 513.370           | 1305.414          |
| IMPERIAL        | 1177.178          | 573.227           | 1750.405          |
| INYO            | 466.523           | 88.333            | 554.857           |
| KERN            | 5032.171          | 3254.355          | 8286.525          |
| KINGS           | 719.454           | 570.004           | 1289.458          |
| LAKE            | 385.553           | 223.206           | 608.759           |
| LASSEN          | 359.467           | 285.789           | 645.256           |
| LOS ANGELES     | 42955.434         | 47828.891         | 90784.320         |
| MADERA          | 1085.585          | 449.869           | 1535.454          |
| MARIN           | 1539.720          | 1145.422          | 2685.141          |
| MARIPOSA        | 143.867           | 144.791           | 288.659           |
| MENDOCINO       | 835.546           | 480.785           | 1316.332          |
| MERCED          | 1829.257          | 963.328           | 2792.585          |
| MODOC           | 104.602           | 80.238            | 184.840           |
| MONO            | 312.725           | 33.947            | 346.672           |
| MONTEREY        | 2319.352          | 1770.133          | 4089.485          |
| NAPA            | 695.788           | 454.072           | 1149.859          |
| NEVADA          | 850.658           | 444.797           | 1295.454          |
| ORANGE          | 13278.236         | 13655.977         | 26934.213         |
| PLACER          | 2006.118          | 1348.466          | 3354.584          |
| PLUMAS          | 204.221           | 151.228           | 355.450           |
| RIVERSIDE       | 10727.909         | 7033.975          | 17761.885         |
| SACRAMENTO      | 5366.065          | 6716.255          | 12082.320         |
| SAN BENITO      | 382.897           | 157.861           | 540.758           |
| SAN BERNARDINO  | 13128.500         | 7806.389          | 20934.889         |
| SAN DIEGO       | 15903.110         | 12861.628         | 28764.738         |
| SAN FRANCISCO   | 1591.829          | 2290.025          | 3881.854          |
| SAN JOAQUIN     | 3724.818          | 2719.117          | 6443.935          |
| SAN LUIS OBISPO | 2004.385          | 931.262           | 2935.646          |
| SAN MATEO       | 5154.932          | 2457.821          | 7612.753          |
| SANTA BARBARA   | 2451.390          | 1381.828          | 3833.217          |
| SANTA CLARA     | 7925.174          | 8172.156          | 16097.330         |
| SANTA CRUZ      | 1101.077          | 1104.393          | 2205.470          |
| SHASTA          | 1277.205          | 903.192           | 2180.396          |
| SIERRA          | 73.047            | 32.177            | 105.224           |
| SISKIYOU        | 639.506           | 247.060           | 886.566           |
| SOLANO          | 3546.959          | 1381.739          | 4928.698          |
| SONOMA          | 2013.909          | 1915.021          | 3928.930          |
| STANISLAUS      | 1829.362          | 2671.450          | 4500.813          |
| SUTTER          | 537.542           | 434.332           | 971.874           |
| TEHAMA          | 640.040           | 273.317           | 913.357           |
| TRINITY         | 139.798           | 36.819            | 176.618           |
| TULARE          | 1933.613          | 1859.753          | 3793.365          |
| TUOLUMNE        | 342.249           | 268.229           | 610.478           |
| VENTURA         | 3915.008          | 3168.008          | 7083.016          |
| YOLO            | 1437.345          | 737.816           | 2175.161          |
| YUBA            | 332.647           | 398.399           | 731.047           |
| <b>TOTAL</b>    | <b>185626.984</b> | <b>159603.984</b> | <b>345230.969</b> |

**2005 ANNUAL STATEWIDE VKT DISTRIBUTION BY COUNTY (MILLIONS)**

| COUNTY          | SHS               | OTHER             | TOTAL             |
|-----------------|-------------------|-------------------|-------------------|
| ALAMEDA         | 14395.450         | 8839.097          | 23234.547         |
| ALPINE          | 92.238            | 16.259            | 108.497           |
| AMADOR          | 525.283           | 181.772           | 707.057           |
| BUTTE           | 1188.237          | 1845.103          | 3033.338          |
| CALAVERAS       | 561.713           | 269.409           | 831.122           |
| COLUSA          | 836.238           | 198.144           | 1034.380          |
| CONTRA COSTA    | 7656.087          | 6547.173          | 14203.261         |
| DEL NORTE       | 306.916           | 145.650           | 452.567           |
| EL DORADO       | 1616.058          | 1405.514          | 3021.572          |
| FRESNO          | 5052.470          | 7993.674          | 13046.144         |
| GLENN           | 621.142           | 212.770           | 833.912           |
| HUMBOLDT        | 1274.671          | 826.189           | 2100.860          |
| IMPERIAL        | 1894.484          | 922.519           | 2817.004          |
| INYO            | 750.796           | 142.158           | 892.956           |
| KERN            | 8098.494          | 5237.377          | 13335.869         |
| KINGS           | 1157.849          | 917.333           | 2075.182          |
| LAKE            | 620.487           | 359.215           | 979.703           |
| LASSEN          | 578.506           | 459.933           | 1038.439          |
| LOS ANGELES     | 69130.070         | 76973.141         | 146103.201        |
| MADERA          | 1747.080          | 723.994           | 2471.074          |
| MARIN           | 2477.939          | 1843.378          | 4321.316          |
| MARIPOSA        | 231.531           | 233.019           | 464.552           |
| MENDOCINO       | 1344.681          | 773.748           | 2118.431          |
| MERCED          | 2943.904          | 1550.326          | 4494.230          |
| MODOC           | 168.341           | 129.131           | 297.471           |
| MONO            | 503.282           | 54.632            | 557.915           |
| MONTEREY        | 3732.635          | 2848.753          | 6581.388          |
| NAPA            | 1119.762          | 730.758           | 1850.519          |
| NEVADA          | 1369.001          | 715.831           | 2084.831          |
| ORANGE          | 21369.250         | 21977.164         | 43346.414         |
| PLACER          | 3228.534          | 2170.146          | 5398.680          |
| PLUMAS          | 328.662           | 243.378           | 572.041           |
| RIVERSIDE       | 17264.896         | 11320.086         | 28584.983         |
| SACRAMENTO      | 8635.845          | 10808.765         | 19444.609         |
| SAN BENITO      | 616.213           | 254.053           | 870.266           |
| SAN BERNARDINO  | 21128.273         | 12563.165         | 33691.438         |
| SAN DIEGO       | 25593.574         | 20698.783         | 46292.359         |
| SAN FRANCISCO   | 2561.801          | 3685.438          | 6247.238          |
| SAN JOAQUIN     | 5994.514          | 4375.995          | 10370.508         |
| SAN LUIS OBISPO | 3225.745          | 1498.721          | 4724.464          |
| SAN MATEO       | 8296.059          | 3955.479          | 12251.538         |
| SANTA BARBARA   | 3945.130          | 2223.837          | 6168.965          |
| SANTA CLARA     | 12754.331         | 13151.811         | 25906.142         |
| SANTA CRUZ      | 1772.012          | 1777.348          | 3549.360          |
| SHASTA          | 2055.462          | 1453.547          | 3509.007          |
| SIERRA          | 117.558           | 51.784            | 169.342           |
| SISKIYOU        | 1029.185          | 397.605           | 1426.790          |
| SOLANO          | 5708.277          | 2223.693          | 7931.971          |
| SONOMA          | 3241.072          | 3081.927          | 6323.000          |
| STANISLAUS      | 2944.073          | 4299.282          | 7243.356          |
| SUTTER          | 865.090           | 698.990           | 1564.080          |
| TEHAMA          | 1030.045          | 439.861           | 1469.906          |
| TRINITY         | 224.983           | 59.254            | 284.239           |
| TULARE          | 3111.848          | 2992.982          | 6104.829          |
| TUOLUMNE        | 550.796           | 431.673           | 982.469           |
| VENTURA         | 6300.595          | 5098.415          | 11399.009         |
| YOLO            | 2313.183          | 1187.400          | 3500.582          |
| YUBA            | 535.343           | 641.161           | 1176.506          |
| <b>TOTAL</b>    | <b>298737.688</b> | <b>256857.719</b> | <b>555595.391</b> |

**2010 ANNUAL STATEWIDE VMT DISTRIBUTION BY COUNTY (MILLIONS)**

| COUNTY          | SHS               | OTHER             | TOTAL             |
|-----------------|-------------------|-------------------|-------------------|
| ALAMEDA         | 9631.158          | 5935.318          | 15566.477         |
| ALPINE          | 65.473            | 11.583            | 77.056            |
| AMADOR          | 390.788           | 135.725           | 526.512           |
| BUTTE           | 831.718           | 1296.214          | 2127.931          |
| CALAVERAS       | 439.170           | 211.405           | 650.575           |
| COLUSA          | 604.548           | 143.769           | 748.316           |
| CONTRA COSTA    | 5242.745          | 4499.750          | 9742.495          |
| DEL NORTE       | 225.349           | 107.333           | 332.682           |
| EL DORADO       | 1164.295          | 1016.305          | 2180.600          |
| FRESNO          | 3748.104          | 5951.647          | 9699.752          |
| GLENN           | 446.111           | 153.372           | 599.483           |
| HUMBOLDT        | 858.045           | 558.180           | 1416.225          |
| IMPERIAL        | 1341.022          | 655.396           | 1996.417          |
| INYO            | 524.591           | 99.691            | 624.282           |
| KERN            | 6007.314          | 3899.175          | 9906.489          |
| KINGS           | 838.699           | 666.905           | 1505.605          |
| LAKE            | 452.833           | 263.113           | 715.946           |
| LASSEN          | 394.195           | 314.543           | 708.738           |
| LOS ANGELES     | 47400.652         | 52971.137         | 100371.789        |
| MADERA          | 1279.281          | 532.073           | 1811.355          |
| MARIN           | 1588.909          | 1186.330          | 2775.238          |
| MARIPOSA        | 166.580           | 168.262           | 334.843           |
| MENDOCINO       | 944.486           | 545.455           | 1489.942          |
| MERCED          | 2174.075          | 1149.098          | 3323.173          |
| MODOC           | 115.211           | 88.698            | 203.910           |
| MONO            | 364.539           | 39.716            | 404.255           |
| MONTEREY        | 2612.389          | 2001.059          | 4613.448          |
| NAPA            | 753.692           | 493.656           | 1247.348          |
| NEVADA          | 996.313           | 522.860           | 1519.172          |
| ORANGE          | 14353.841         | 14816.079         | 29169.920         |
| PLACER          | 2327.170          | 1569.981          | 3897.151          |
| PLUMAS          | 220.795           | 164.099           | 384.894           |
| RIVERSIDE       | 12996.236         | 8552.363          | 21548.600         |
| SACRAMENTO      | 6078.685          | 7635.961          | 13714.646         |
| SAN BENITO      | 453.542           | 187.670           | 641.212           |
| SAN BERNARDINO  | 15652.601         | 9341.237          | 24993.838         |
| SAN DIEGO       | 17733.920         | 14394.662         | 32128.582         |
| SAN FRANCISCO   | 1664.363          | 2403.116          | 4067.480          |
| SAN JOAQUIN     | 4328.275          | 3171.177          | 7499.452          |
| SAN LUIS OBISPO | 2244.384          | 1046.576          | 3290.959          |
| SAN MATEO       | 5519.470          | 2641.238          | 8160.708          |
| SANTA BARBARA   | 2688.543          | 1521.042          | 4209.585          |
| SANTA CLARA     | 8555.601          | 8854.440          | 17410.041         |
| SANTA CRUZ      | 1211.007          | 1219.089          | 2430.096          |
| SHASTA          | 1445.026          | 1025.599          | 2470.625          |
| SIERRA          | 78.234            | 34.587            | 112.821           |
| SISKIYOU        | 701.244           | 271.900           | 973.144           |
| SOLANO          | 4006.948          | 1566.629          | 5573.577          |
| SONOMA          | 2214.543          | 2113.493          | 4328.036          |
| STANISLAUS      | 2169.362          | 3179.525          | 5348.887          |
| SUTTER          | 656.160           | 532.110           | 1188.270          |
| TEHAMA          | 713.645           | 305.861           | 1019.507          |
| TRINITY         | 153.933           | 40.690            | 194.623           |
| TULARE          | 2247.908          | 2169.936          | 4417.844          |
| TUOLUMNE        | 396.114           | 311.578           | 707.692           |
| VENTURA         | 4367.226          | 3546.844          | 7914.070          |
| YOLO            | 1668.848          | 859.778           | 2528.626          |
| YUBA            | 390.106           | 468.922           | 859.028           |
| <b>TOTAL</b>    | <b>208840.016</b> | <b>179563.969</b> | <b>388403.938</b> |

**2010 ANNUAL STATEWIDE VKT DISTRIBUTION BY COUNTY (MILLIONS)**

| COUNTY          | SHS               | OTHER             | TOTAL             |
|-----------------|-------------------|-------------------|-------------------|
| ALAMEDA         | 15499.847         | 9551.969          | 25051.816         |
| ALPINE          | 105.369           | 18.641            | 124.010           |
| AMADOR          | 628.912           | 218.428           | 847.339           |
| BUTTE           | 1338.520          | 2086.054          | 3424.573          |
| CALAVERAS       | 706.776           | 340.223           | 1046.999          |
| COLUSA          | 972.926           | 231.374           | 1204.298          |
| CONTRA COSTA    | 8437.380          | 7241.646          | 15679.026         |
| DEL NORTE       | 362.664           | 172.736           | 535.400           |
| EL DORADO       | 1873.751          | 1635.584          | 3509.336          |
| FRESNO          | 6031.989          | 9578.247          | 15610.238         |
| GLENN           | 717.946           | 246.828           | 964.774           |
| HUMBOLDT        | 1380.890          | 898.304           | 2279.193          |
| IMPERIAL        | 2158.166          | 1054.758          | 3212.922          |
| INYO            | 844.247           | 160.437           | 1004.684          |
| KERN            | 9667.835          | 6275.114          | 15942.949         |
| KINGS           | 1349.755          | 1073.280          | 2423.036          |
| LAKE            | 728.764           | 423.439           | 1152.203          |
| LASSEN          | 634.395           | 506.208           | 1140.603          |
| LOS ANGELES     | 76283.953         | 85248.781         | 161532.737        |
| MADERA          | 2058.803          | 856.289           | 2915.093          |
| MARIN           | 2557.101          | 1909.213          | 4466.313          |
| MARIPOSA        | 268.085           | 270.791           | 538.878           |
| MENDOCINO       | 1520.003          | 877.825           | 2397.829          |
| MERCED          | 3498.834          | 1849.294          | 5348.129          |
| MODOC           | 185.414           | 142.746           | 328.161           |
| MONO            | 586.669           | 63.917            | 650.585           |
| MONTEREY        | 4204.232          | 3220.392          | 7424.625          |
| NAPA            | 1212.950          | 794.462           | 2007.412          |
| NEVADA          | 1603.410          | 841.462           | 2444.870          |
| ORANGE          | 23100.268         | 23844.168         | 46944.436         |
| PLACER          | 3745.217          | 2526.639          | 6271.857          |
| PLUMAS          | 355.335           | 264.092           | 619.427           |
| RIVERSIDE       | 20915.414         | 13763.694         | 34679.110         |
| SACRAMENTO      | 9782.695          | 12288.888         | 22071.583         |
| SAN BENITO      | 729.905           | 302.026           | 1031.931          |
| SAN BERNARDINO  | 25190.420         | 15033.264         | 40223.683         |
| SAN DIEGO       | 28539.979         | 23165.963         | 51705.941         |
| SAN FRANCISCO   | 2678.533          | 3867.440          | 6545.975          |
| SAN JOAQUIN     | 6965.684          | 5103.515          | 12069.198         |
| SAN LUIS OBISPO | 3611.986          | 1684.301          | 5296.285          |
| SAN MATEO       | 8882.726          | 4250.661          | 13133.387         |
| SANTA BARBARA   | 4326.791          | 2447.880          | 6774.670          |
| SANTA CLARA     | 13768.905         | 14249.840         | 28018.745         |
| SANTA CRUZ      | 1948.927          | 1961.934          | 3910.860          |
| SHASTA          | 2325.544          | 1650.542          | 3976.086          |
| SIERRA          | 125.905           | 55.662            | 181.568           |
| SISKIYOU        | 1128.543          | 437.581           | 1566.123          |
| SOLANO          | 6448.558          | 2521.245          | 8969.803          |
| SONOMA          | 3563.961          | 3401.337          | 6965.299          |
| STANISLAUS      | 3491.250          | 5116.950          | 8608.199          |
| SUTTER          | 1055.987          | 856.348           | 1912.335          |
| TEHAMA          | 1148.500          | 492.236           | 1640.737          |
| TRINITY         | 247.731           | 65.484            | 313.215           |
| TULARE          | 3617.657          | 3492.174          | 7109.831          |
| TUOLUMNE        | 637.484           | 501.436           | 1138.920          |
| VENTURA         | 7028.369          | 5708.092          | 12736.461         |
| YOLO            | 2685.750          | 1383.679          | 4069.429          |
| YUBA            | 627.815           | 754.657           | 1382.472          |
| <b>TOTAL</b>    | <b>336095.438</b> | <b>288980.188</b> | <b>625075.549</b> |

**2015 ANNUAL STATEWIDE VMT DISTRIBUTION BY COUNTY (MILLIONS)**

| COUNTY          | SHS        | OTHER      | TOTAL      |
|-----------------|------------|------------|------------|
| ALAMEDA         | 10120.529  | 6260.524   | 16381.054  |
| ALPINE          | 72.994     | 12.963     | 85.957     |
| AMADOR          | 456.624    | 159.191    | 615.815    |
| BUTTE           | 914.367    | 1430.419   | 2344.786   |
| CALAVERAS       | 539.291    | 260.584    | 799.875    |
| COLUSA          | 686.440    | 163.862    | 850.302    |
| CONTRA COSTA    | 5638.738   | 4857.957   | 10496.695  |
| DEL NORTE       | 259.875    | 124.246    | 384.121    |
| EL DORADO       | 1317.469   | 1154.366   | 2471.835   |
| FRESNO          | 4367.080   | 6960.791   | 11327.871  |
| GLENN           | 503.231    | 173.665    | 676.896    |
| HUMBOLDT        | 907.180    | 592.379    | 1499.559   |
| IMPERIAL        | 1490.913   | 731.412    | 2222.324   |
| INYO            | 575.693    | 109.816    | 685.510    |
| KERN            | 6998.869   | 4559.973   | 11558.842  |
| KINGS           | 954.184    | 761.609    | 1715.793   |
| LAKE            | 519.057    | 302.734    | 821.791    |
| LASSEN          | 421.877    | 337.907    | 759.784    |
| LOS ANGELES     | 51047.332  | 57262.461  | 108309.797 |
| MADERA          | 1471.265   | 614.240    | 2085.505   |
| MARIN           | 1600.216   | 1199.298   | 2799.515   |
| MARIPOSA        | 188.238    | 190.859    | 379.097    |
| MENDOCINO       | 1041.942   | 604.017    | 1645.959   |
| MERCED          | 2521.721   | 1337.893   | 3859.614   |
| MODOC           | 123.843    | 95.705     | 219.548    |
| MONO            | 414.713    | 45.354     | 460.067    |
| MONTEREY        | 2871.650   | 2207.982   | 5079.632   |
| NAPA            | 796.771    | 523.849    | 1320.620   |
| NEVADA          | 1138.830   | 599.916    | 1738.746   |
| ORANGE          | 15143.226  | 15690.095  | 30833.320  |
| PLACER          | 2634.646   | 1784.147   | 4418.792   |
| PLUMAS          | 232.971    | 173.804    | 406.774    |
| RIVERSIDE       | 15365.358  | 10149.700  | 25515.059  |
| SACRAMENTO      | 6720.257   | 8473.873   | 15194.130  |
| SAN BENITO      | 524.296    | 217.768    | 742.064    |
| SAN BERNARDINO  | 18212.955  | 10910.392  | 29123.346  |
| SAN DIEGO       | 19299.674  | 15724.929  | 35024.602  |
| SAN FRANCISCO   | 1698.331   | 2461.450   | 4159.782   |
| SAN JOAQUIN     | 4908.481   | 3609.896   | 8518.378   |
| SAN LUIS OBISPO | 2452.650   | 1148.025   | 3600.675   |
| SAN MATEO       | 5767.590   | 2770.426   | 8538.016   |
| SANTA BARBARA   | 2877.691   | 1634.219   | 4511.910   |
| SANTA CLARA     | 9013.940   | 9364.128   | 18378.068  |
| SANTA CRUZ      | 1299.865   | 1313.496   | 2613.361   |
| SHASTA          | 1595.560   | 1136.730   | 2732.290   |
| SIERRA          | 81.773     | 36.288     | 118.061    |
| SISKIYOU        | 750.440    | 292.077    | 1042.517   |
| SOLANO          | 4417.675   | 1733.757   | 6151.432   |
| SONOMA          | 2376.573   | 2276.720   | 4653.292   |
| STANISLAUS      | 2510.655   | 3693.679   | 6204.334   |
| SUTTER          | 781.680    | 636.302    | 1417.982   |
| TEHAMA          | 776.569    | 334.091    | 1110.660   |
| TRINITY         | 165.419    | 43.892     | 209.311    |
| TULARE          | 2550.411   | 2471.272   | 5021.683   |
| TUOLUMNE        | 447.425    | 353.272    | 800.696    |
| VENTURA         | 4754.460   | 3875.963   | 8630.424   |
| YOLO            | 1891.015   | 977.927    | 2868.942   |
| YUBA            | 446.483    | 538.721    | 985.204    |
| TOTAL           | 229658.984 | 197462.969 | 427122.000 |

**2015 ANNUAL STATEWIDE VKT DISTRIBUTION BY COUNTY (MILLIONS)**

| COUNTY          | SHS               | OTHER             | TOTAL             |
|-----------------|-------------------|-------------------|-------------------|
| ALAMEDA         | 16287.413         | 10075.337         | 26362.751         |
| ALPINE          | 117.472           | 20.862            | 138.334           |
| AMADOR          | 734.865           | 256.193           | 991.058           |
| BUTTE           | 1471.531          | 2302.036          | 3773.567          |
| CALAVERAS       | 867.905           | 419.369           | 1287.274          |
| COLUSA          | 1104.718          | 263.710           | 1368.428          |
| CONTRA COSTA    | 9074.669          | 7818.124          | 16892.793         |
| DEL NORTE       | 418.228           | 199.955           | 618.183           |
| EL DORADO       | 2120.261          | 1857.772          | 3978.033          |
| FRESNO          | 7028.134          | 11202.308         | 18230.441         |
| GLENN           | 809.872           | 279.487           | 1089.359          |
| HUMBOLDT        | 1459.965          | 953.342           | 2413.306          |
| IMPERIAL        | 2399.392          | 1177.094          | 3576.484          |
| INYO            | 926.488           | 176.732           | 1103.221          |
| KERN            | 11263.588         | 7338.565          | 18602.153         |
| KINGS           | 1535.610          | 1225.691          | 2761.301          |
| LAKE            | 835.341           | 487.203           | 1322.544          |
| LASSEN          | 678.945           | 543.809           | 1222.754          |
| LOS ANGELES     | 82152.719         | 92155.000         | 174307.723        |
| MADERA          | 2367.771          | 988.523           | 3356.295          |
| MARIN           | 2575.298          | 1930.083          | 4505.383          |
| MARIPOSA        | 302.940           | 307.158           | 610.097           |
| MENDOCINO       | 1676.843          | 972.071           | 2648.914          |
| MERCED          | 4058.317          | 2153.130          | 6211.447          |
| MODOC           | 199.306           | 154.022           | 353.328           |
| MONO            | 667.416           | 72.990            | 740.406           |
| MONTEREY        | 4621.473          | 3553.403          | 8174.875          |
| NAPA            | 1282.279          | 843.053           | 2125.332          |
| NEVADA          | 1832.769          | 965.471           | 2798.240          |
| ORANGE          | 24370.660         | 25250.760         | 49621.419         |
| PLACER          | 4240.052          | 2871.306          | 7111.356          |
| PLUMAS          | 374.930           | 279.710           | 654.639           |
| RIVERSIDE       | 24728.146         | 16334.358         | 41062.507         |
| SACRAMENTO      | 10815.205         | 13637.377         | 24452.582         |
| SAN BENITO      | 843.773           | 350.464           | 1194.236          |
| SAN BERNARDINO  | 29310.910         | 17558.574         | 46869.482         |
| SAN DIEGO       | 31059.814         | 25306.820         | 56366.633         |
| SAN FRANCISCO   | 2733.199          | 3961.320          | 6694.520          |
| SAN JOAQUIN     | 7899.435          | 5809.564          | 13709.001         |
| SAN LUIS OBISPO | 3947.157          | 1847.567          | 5794.725          |
| SAN MATEO       | 9282.036          | 4458.568          | 13740.605         |
| SANTA BARBARA   | 4631.195          | 2630.021          | 7261.215          |
| SANTA CLARA     | 14506.530         | 15070.104         | 29576.634         |
| SANTA CRUZ      | 2091.930          | 2113.867          | 4205.797          |
| SHASTA          | 2567.805          | 1829.390          | 4397.195          |
| SIERRA          | 131.601           | 58.400            | 190.001           |
| SISKIYOU        | 1207.716          | 470.052           | 1677.768          |
| SOLANO          | 7109.559          | 2790.211          | 9899.770          |
| SONOMA          | 3824.724          | 3664.026          | 7488.748          |
| STANISLAUS      | 4040.508          | 5944.400          | 9984.908          |
| SUTTER          | 1257.992          | 1024.029          | 2282.021          |
| TEHAMA          | 1249.767          | 537.667           | 1787.434          |
| TRINITY         | 266.216           | 70.637            | 336.853           |
| TULARE          | 4104.489          | 3977.127          | 8081.615          |
| TUOLUMNE        | 720.061           | 568.536           | 1288.595          |
| VENTURA         | 7651.562          | 6237.758          | 13889.321         |
| YOLO            | 3043.294          | 1573.821          | 4617.115          |
| YUBA            | 718.545           | 866.987           | 1585.532          |
| <b>TOTAL</b>    | <b>369600.313</b> | <b>317785.844</b> | <b>687386.230</b> |

**2020 ANNUAL STATEWIDE VMT DISTRIBUTION BY COUNTY (MILLION)**

| COUNTY          | SHS               | OTHER             | TOTAL             |
|-----------------|-------------------|-------------------|-------------------|
| ALAMEDA         | 10558.035         | 6556.932          | 17114.967         |
| ALPINE          | 80.791            | 14.404            | 95.195            |
| AMADOR          | 529.703           | 185.397           | 715.100           |
| BUTTE           | 997.977           | 1567.376          | 2565.353          |
| CALAVERAS       | 657.459           | 318.935           | 976.394           |
| COLUSA          | 773.803           | 185.445           | 959.248           |
| CONTRA COSTA    | 6020.885          | 5207.654          | 11228.539         |
| DEL NORTE       | 297.528           | 142.809           | 440.337           |
| EL DORADO       | 1480.039          | 1301.925          | 2781.964          |
| FRESNO          | 5051.562          | 8083.570          | 13135.132         |
| GLENN           | 563.569           | 195.255           | 758.823           |
| HUMBOLDT        | 952.209           | 624.235           | 1576.444          |
| IMPERIAL        | 1645.598          | 810.482           | 2456.080          |
| INYO            | 627.215           | 120.117           | 747.332           |
| KERN            | 8095.256          | 5295.111          | 13390.367         |
| KINGS           | 1077.738          | 863.621           | 1941.359          |
| LAKE            | 590.673           | 345.862           | 936.535           |
| LASSEN          | 448.245           | 360.443           | 808.688           |
| LOS ANGELES     | 54577.914         | 61464.449         | 116042.359        |
| MADERA          | 1679.851          | 704.090           | 2383.941          |
| MARIN           | 1599.977          | 1203.849          | 2803.826          |
| MARIPOSA        | 211.177           | 214.962           | 426.139           |
| MENDOCINO       | 1141.160          | 664.143           | 1805.303          |
| MERCED          | 2903.853          | 1546.710          | 4450.563          |
| MODOC           | 132.161           | 102.536           | 234.696           |
| MONO            | 468.389           | 51.426            | 519.816           |
| MONTEREY        | 3133.866          | 2419.104          | 5552.970          |
| NAPA            | 836.235           | 551.964           | 1388.199          |
| NEVADA          | 1292.342          | 683.469           | 1975.811          |
| ORANGE          | 15860.754         | 16498.371         | 32359.125         |
| PLACER          | 2961.226          | 2013.214          | 4974.440          |
| PLUMAS          | 244.044           | 182.783           | 426.827           |
| RIVERSIDE       | 18035.281         | 11960.341         | 29995.621         |
| SACRAMENTO      | 7375.938          | 9337.346          | 16713.285         |
| SAN BENITO      | 601.714           | 250.910           | 852.625           |
| SAN BERNARDINO  | 21039.215         | 12653.174         | 33692.391         |
| SAN DIEGO       | 20852.127         | 17056.863         | 37908.988         |
| SAN FRANCISCO   | 1720.489          | 2503.402          | 4223.891          |
| SAN JOAQUIN     | 5526.302          | 4080.301          | 9606.604          |
| SAN LUIS OBISPO | 2660.905          | 1250.417          | 3911.323          |
| SAN MATEO       | 5983.379          | 2885.418          | 8868.797          |
| SANTA BARBARA   | 3057.922          | 1743.423          | 4801.345          |
| SANTA CLARA     | 9428.314          | 9833.243          | 19261.557         |
| SANTA CRUZ      | 1385.176          | 1405.224          | 2790.400          |
| SHASTA          | 1749.064          | 1251.008          | 3000.072          |
| SIERRA          | 84.855            | 37.805            | 122.660           |
| SISKIYOU        | 797.292           | 311.537           | 1108.829          |
| SOLANO          | 4835.361          | 1905.169          | 6740.531          |
| SONOMA          | 2532.054          | 2435.240          | 4967.294          |
| STANISLAUS      | 2884.676          | 4260.684          | 7145.360          |
| SUTTER          | 924.493           | 755.523           | 1680.016          |
| TEHAMA          | 838.944           | 362.349           | 1201.293          |
| TRINITY         | 176.479           | 47.011            | 223.491           |
| TULARE          | 2872.743          | 2794.585          | 5667.329          |
| TUOLUMNE        | 501.736           | 397.717           | 899.453           |
| VENTURA         | 5138.684          | 4205.720          | 9344.404          |
| YOLO            | 2127.297          | 1104.460          | 3231.757          |
| YUBA            | 507.319           | 614.541           | 1121.860          |
| <b>TOTAL</b>    | <b>251129.000</b> | <b>215924.047</b> | <b>467053.125</b> |

**2020 ANNUAL STATEWIDE VKT DISTRIBUTION BY COUNTY (MILLIONS)**

| COUNTY          | SHS               | OTHER             | TOTAL             |
|-----------------|-------------------|-------------------|-------------------|
| ALAMEDA         | 16991.510         | 10552.359         | 27543.870         |
| ALPINE          | 130.021           | 23.181            | 153.202           |
| AMADOR          | 852.474           | 298.368           | 1150.842          |
| BUTTE           | 1606.088          | 2522.447          | 4128.535          |
| CALAVERAS       | 1058.078          | 513.276           | 1571.354          |
| COLUSA          | 1245.315          | 298.445           | 1543.760          |
| CONTRA COSTA    | 9689.675          | 8380.907          | 18070.582         |
| DEL NORTE       | 478.825           | 229.829           | 708.654           |
| EL DORADO       | 2381.892          | 2095.245          | 4477.137          |
| FRESNO          | 8129.701          | 13009.245         | 21138.946         |
| GLENN           | 906.976           | 314.232           | 1221.207          |
| HUMBOLDT        | 1532.432          | 1004.609          | 2537.041          |
| IMPERIAL        | 2648.333          | 1304.344          | 3952.678          |
| INYO            | 1009.405          | 193.310           | 1202.714          |
| KERN            | 13028.052         | 8521.655          | 21549.707         |
| KINGS           | 1734.451          | 1389.863          | 3124.314          |
| LAKE            | 950.596           | 556.611           | 1507.207          |
| LASSEN          | 721.380           | 580.077           | 1301.457          |
| LOS ANGELES     | 87834.641         | 98917.445         | 186752.075        |
| MADERA          | 2703.458          | 1133.123          | 3836.581          |
| MARIN           | 2574.913          | 1937.407          | 4512.321          |
| MARIPOSA        | 339.856           | 345.948           | 685.804           |
| MENDOCINO       | 1836.519          | 1068.835          | 2905.354          |
| MERCED          | 4673.298          | 2489.188          | 7162.487          |
| MODOC           | 212.693           | 165.016           | 377.707           |
| MONO            | 753.799           | 82.762            | 836.563           |
| MONTEREY        | 5043.468          | 3893.170          | 8936.639          |
| NAPA            | 1345.790          | 888.300           | 2234.090          |
| NEVADA          | 2079.823          | 1099.937          | 3179.760          |
| ORANGE          | 25525.410         | 26551.555         | 52076.964         |
| PLACER          | 4765.631          | 3239.954          | 8005.585          |
| PLUMAS          | 392.751           | 294.161           | 686.911           |
| RIVERSIDE       | 29024.971         | 19248.303         | 48273.273         |
| SACRAMENTO      | 11870.422         | 15027.002         | 26897.425         |
| SAN BENITO      | 968.365           | 403.801           | 1372.167          |
| SAN BERNARDINO  | 33859.336         | 20363.311         | 54222.647         |
| SAN DIEGO       | 33558.246         | 27450.359         | 61008.603         |
| SAN FRANCISCO   | 2768.859          | 4028.835          | 6797.694          |
| SAN JOAQUIN     | 8893.721          | 6566.608          | 15460.331         |
| SAN LUIS OBISPO | 4282.312          | 2012.351          | 6294.664          |
| SAN MATEO       | 9629.315          | 4643.630          | 14272.945         |
| SANTA BARBARA   | 4921.249          | 2805.767          | 7727.016          |
| SANTA CLARA     | 15173.400         | 15825.070         | 30998.471         |
| SANTA CRUZ      | 2229.225          | 2261.489          | 4490.714          |
| SHASTA          | 2814.846          | 2013.302          | 4828.148          |
| SIERRA          | 136.561           | 60.841            | 197.402           |
| SISKIYOU        | 1283.117          | 501.370           | 1784.487          |
| SOLANO          | 7781.759          | 3066.072          | 10847.833         |
| SONOMA          | 4074.946          | 3919.139          | 7994.085          |
| STANISLAUS      | 4642.436          | 6856.906          | 11499.342         |
| SUTTER          | 1487.827          | 1215.896          | 2703.724          |
| TEHAMA          | 1350.150          | 583.144           | 1933.294          |
| TRINITY         | 284.015           | 75.657            | 359.674           |
| TULARE          | 4623.232          | 4497.449          | 9120.682          |
| TUOLUMNE        | 807.466           | 640.063           | 1447.529          |
| VENTURA         | 8269.910          | 6768.450          | 15038.361         |
| YOLO            | 3423.553          | 1777.456          | 5201.009          |
| YUBA            | 816.451           | 989.008           | 1805.459          |
| <b>TOTAL</b>    | <b>404152.938</b> | <b>347496.063</b> | <b>751649.147</b> |

## APPENDIX C

### CALIFORNIA VEHICLE FUEL CONSUMPTION BY COUNTY AND FUEL TYPE

**1995 ANNUAL STATEWIDE VFC DISTRIBUTION BY COUNTY**

| COUNTY          | GASOLINE         | DIESEL          | TOTAL            |
|-----------------|------------------|-----------------|------------------|
| ALAMEDA         | 567.313          | 78.239          | 645.552          |
| ALPINE          | 2.162            | 0.289           | 2.450            |
| AMADOR          | 15.290           | 2.414           | 17.705           |
| BUTTE           | 71.271           | 10.898          | 82.169           |
| CALAVERAS       | 16.377           | 2.018           | 18.395           |
| COLUSA          | 21.142           | 10.991          | 32.133           |
| CONTRA COSTA    | 327.205          | 37.697          | 364.902          |
| DEL NORTE       | 9.941            | 1.900           | 11.842           |
| EL DORADO       | 66.902           | 7.834           | 74.736           |
| FRESNO          | 273.532          | 59.844          | 333.376          |
| GLENN           | 18.324           | 9.597           | 27.921           |
| HUMBOLDT        | 52.842           | 9.525           | 62.367           |
| IMPERIAL        | 63.581           | 19.557          | 83.137           |
| INYO            | 21.197           | 4.293           | 25.490           |
| KERN            | 269.325          | 101.270         | 370.595          |
| KINGS           | 42.782           | 12.264          | 55.046           |
| LAKE            | 20.964           | 2.679           | 23.643           |
| LASSEN          | 25.602           | 6.000           | 31.602           |
| LOS ANGELES     | 3507.030         | 472.980         | 3980.011         |
| MADERA          | 51.944           | 16.529          | 68.472           |
| MARIN           | 121.026          | 11.322          | 132.348          |
| MARISPOSA       | 11.018           | 0.909           | 11.927           |
| MENDOCINO       | 48.815           | 7.713           | 56.529           |
| MERCED          | 94.719           | 34.059          | 128.778          |
| MODOC           | 7.328            | 2.035           | 9.363            |
| MONO            | 12.752           | 2.482           | 15.235           |
| MONTEREY        | 151.091          | 27.608          | 178.698          |
| NAPA            | 42.532           | 5.748           | 48.279           |
| NEVADA          | 44.368           | 7.598           | 51.966           |
| ORANGE          | 1061.933         | 133.375         | 1195.308         |
| PLACER          | 114.180          | 19.018          | 133.198          |
| PLUMAS          | 13.130           | 2.888           | 16.018           |
| RIVERSIDE       | 557.851          | 139.249         | 697.100          |
| SACRAMENTO      | 428.933          | 66.411          | 495.344          |
| SAN BENITO      | 18.717           | 4.873           | 23.591           |
| SAN BERNARDINO  | 714.652          | 177.707         | 892.359          |
| SAN DIEGO       | 1070.276         | 124.792         | 1195.068         |
| SAN FRANCISCO   | 172.838          | 14.092          | 186.930          |
| SAN JOAQUIN     | 222.537          | 67.002          | 289.539          |
| SAN LUIS OBISPO | 105.364          | 18.408          | 123.772          |
| SAN MATEO       | 305.807          | 26.189          | 331.996          |
| SANTA BARBARA   | 145.217          | 22.769          | 167.985          |
| SANTA CLARA     | 658.540          | 67.197          | 725.737          |
| SANTA CRUZ      | 83.801           | 8.286           | 92.088           |
| SHASTA          | 75.620           | 21.871          | 97.491           |
| SIERRA          | 4.038            | 1.269           | 5.308            |
| SISKIYOU        | 34.361           | 18.660          | 53.021           |
| SOLONO          | 172.492          | 28.194          | 200.686          |
| SONOMA          | 153.252          | 19.926          | 173.178          |
| STANISLAUS      | 154.715          | 34.255          | 188.969          |
| SUTTER          | 31.307           | 6.032           | 37.339           |
| TEHAMA          | 33.137           | 13.046          | 46.183           |
| TRINITY         | 6.602            | 2.383           | 8.985            |
| TULARE          | 125.786          | 39.598          | 165.384          |
| TUOLUMNE        | 22.443           | 2.841           | 25.284           |
| VENTURA         | 270.426          | 35.839          | 306.265          |
| YOLO            | 76.526           | 19.521          | 96.046           |
| YUBA            | 25.401           | 3.527           | 28.929           |
| <b>TOTAL</b>    | <b>12838.255</b> | <b>2105.512</b> | <b>14943.767</b> |

VFC in Million Gallons

**2000 ANNUAL STATEWIDE VFC DISTRIBUTION BY COUNTY**

| COUNTY          | GASOLINE         | DIESEL          | TOTAL            |
|-----------------|------------------|-----------------|------------------|
| ALAMEDA         | 620.525          | 86.080          | 706.606          |
| ALPINE          | 2.731            | 0.393           | 3.124            |
| AMADOR          | 16.936           | 2.737           | 19.673           |
| BUTTE           | 77.163           | 12.213          | 89.376           |
| CALAVERAS       | 19.021           | 2.473           | 21.494           |
| COLUSA          | 24.047           | 14.466          | 38.513           |
| CONTRA COSTA    | 371.476          | 44.486          | 415.962          |
| DEL NORTE       | 10.928           | 2.153           | 13.081           |
| EL DORADO       | 75.102           | 9.075           | 84.177           |
| FRESNO          | 310.517          | 68.170          | 378.688          |
| GLENN           | 19.615           | 10.986          | 30.601           |
| HUMBOLDT        | 55.290           | 11.098          | 66.388           |
| IMPERIAL        | 69.329           | 22.609          | 91.938           |
| INYO            | 22.583           | 5.088           | 27.672           |
| KERN            | 309.516          | 127.781         | 437.297          |
| KINGS           | 49.896           | 16.214          | 66.111           |
| LAKE            | 23.997           | 3.263           | 27.260           |
| LASSEN          | 26.840           | 6.514           | 33.354           |
| LOS ANGELES     | 3804.700         | 532.830         | 4337.530         |
| MADERA          | 58.640           | 20.290          | 78.930           |
| MARIN           | 121.141          | 11.414          | 132.555          |
| MARIPOSA        | 11.626           | 0.937           | 12.562           |
| MENDOCINO       | 53.691           | 8.917           | 62.609           |
| MERCED          | 105.298          | 39.642          | 144.940          |
| MODOC           | 7.563            | 2.513           | 10.076           |
| MONO            | 13.553           | 3.501           | 17.054           |
| MONTEREY        | 166.787          | 31.889          | 198.676          |
| NAPA            | 49.358           | 5.141           | 54.499           |
| NEVADA          | 50.928           | 8.987           | 59.915           |
| ORANGE          | 1153.719         | 151.608         | 1305.327         |
| PLACER          | 133.272          | 22.435          | 155.707          |
| PLUMAS          | 15.083           | 3.033           | 18.116           |
| RIVERSIDE       | 667.165          | 174.589         | 841.754          |
| SACRAMENTO      | 491.830          | 78.857          | 570.687          |
| SAN BENITO      | 20.798           | 5.317           | 26.115           |
| SAN BERNARDINO  | 798.968          | 209.780         | 1008.748         |
| SAN DIEGO       | 1196.682         | 142.761         | 1339.443         |
| SAN FRANCISCO   | 173.092          | 13.858          | 186.950          |
| SAN JOAQUIN     | 250.260          | 80.661          | 330.921          |
| SAN LUIS OBISPO | 120.713          | 21.401          | 142.114          |
| SAN MATEO       | 331.168          | 30.965          | 362.133          |
| SANTA BARBARA   | 161.265          | 25.942          | 187.207          |
| SANTA CLARA     | 693.225          | 71.032          | 764.257          |
| SANTA CRUZ      | 93.409           | 8.263           | 101.672          |
| SHASTA          | 87.088           | 27.214          | 114.302          |
| SIERRA          | 4.419            | 1.547           | 5.966            |
| SISKIYOU        | 35.380           | 19.767          | 55.147           |
| SOLANO          | 201.121          | 34.108          | 235.229          |
| SONOMA          | 165.462          | 21.701          | 187.163          |
| STANISLAUS      | 173.345          | 39.773          | 213.118          |
| SUTTER          | 36.641           | 6.506           | 43.147           |
| TEHAMA          | 36.496           | 15.381          | 51.877           |
| TRINITY         | 7.229            | 2.442           | 9.670            |
| TULARE          | 146.685          | 51.244          | 197.929          |
| TUOLUMNE        | 24.427           | 3.232           | 27.659           |
| VENTURA         | 293.775          | 40.781          | 334.556          |
| YOLO            | 85.013           | 24.102          | 109.115          |
| YUBA            | 28.815           | 4.122           | 32.937           |
| <b>TOTAL</b>    | <b>14175.340</b> | <b>2444.284</b> | <b>16619.624</b> |

VFC in Million Gallons

**2005 ANNUAL STATEWIDE VFC DISTRIBUTION BY COUNTY**

| COUNTY          | GASOLINE         | DIESEL          | TOTAL            |
|-----------------|------------------|-----------------|------------------|
| ALAMEDA         | 660.973          | 89.115          | 750.087          |
| ALPINE          | 3.084            | 0.431           | 3.516            |
| AMADOR          | 20.050           | 3.155           | 23.205           |
| BUTTE           | 86.058           | 13.253          | 99.311           |
| CALAVERAS       | 23.672           | 2.990           | 26.662           |
| COLUSA          | 27.642           | 16.305          | 43.947           |
| CONTRA COSTA    | 405.123          | 47.070          | 452.193          |
| DEL NORTE       | 12.771           | 2.453           | 15.224           |
| EL DORADO       | 86.172           | 10.105          | 96.276           |
| FRESNO          | 367.008          | 78.582          | 445.590          |
| GLENN           | 22.407           | 12.300          | 34.708           |
| HUMBOLDT        | 59.253           | 11.597          | 70.850           |
| IMPERIAL        | 78.099           | 24.906          | 103.005          |
| INYO            | 25.100           | 5.521           | 30.620           |
| KERN            | 365.424          | 147.660         | 513.084          |
| KINGS           | 57.542           | 18.282          | 75.824           |
| LAKE            | 27.881           | 3.684           | 31.565           |
| LASSEN          | 29.120           | 6.900           | 36.020           |
| LOS ANGELES     | 4155.557         | 565.649         | 4721.206         |
| MADERA          | 68.323           | 23.129          | 91.452           |
| MARIN           | 123.699          | 11.272          | 134.970          |
| MARIPOSA        | 13.323           | 1.035           | 14.358           |
| MENDOCINO       | 60.036           | 9.708           | 69.744           |
| MERCED          | 123.752          | 45.589          | 169.341          |
| MODOC           | 8.240            | 2.678           | 10.918           |
| MONO            | 15.611           | 3.940           | 19.552           |
| MONTEREY        | 185.868          | 34.636          | 220.504          |
| NAPA            | 52.898           | 5.336           | 58.234           |
| NEVADA          | 58.999           | 10.141          | 69.140           |
| ORANGE          | 1234.369         | 157.558         | 1391.926         |
| PLACER          | 152.951          | 25.065          | 178.016          |
| PLUMAS          | 16.133           | 3.164           | 19.297           |
| RIVERSIDE       | 799.490          | 204.336         | 1003.826         |
| SACRAMENTO      | 551.499          | 86.045          | 637.545          |
| SAN BENITO      | 24.360           | 6.083           | 30.443           |
| SAN BERNARDINO  | 942.199          | 241.622         | 1183.821         |
| SAN DIEGO       | 1320.492         | 152.828         | 1473.320         |
| SAN FRANCISCO   | 179.184          | 13.835          | 193.019          |
| SAN JOAQUIN     | 287.663          | 90.651          | 378.315          |
| SAN LUIS OBISPO | 133.682          | 23.090          | 156.772          |
| SAN MATEO       | 350.739          | 31.711          | 382.450          |
| SANTA BARBARA   | 174.954          | 27.393          | 202.347          |
| SANTA CLARA     | 740.714          | 73.486          | 814.201          |
| SANTA CRUZ      | 101.684          | 8.689           | 110.373          |
| SHASTA          | 97.465           | 29.773          | 127.238          |
| SIERRA          | 4.680            | 1.603           | 6.283            |
| SISKIYOU        | 38.345           | 20.996          | 59.341           |
| SOLANO          | 224.681          | 37.108          | 261.789          |
| SONOMA          | 180.066          | 22.938          | 203.004          |
| STANISLAUS      | 203.488          | 45.554          | 249.043          |
| SUTTER          | 44.255           | 7.654           | 51.909           |
| TEHAMA          | 40.231           | 16.599          | 56.830           |
| TRINITY         | 7.868            | 2.600           | 10.468           |
| TULARE          | 168.720          | 57.649          | 226.369          |
| TUOLUMNE        | 27.974           | 3.596           | 31.570           |
| VENTURA         | 324.273          | 43.750          | 368.023          |
| YOLO            | 97.615           | 27.044          | 124.659          |
| YUBA            | 33.449           | 4.652           | 38.101           |
| <b>TOTAL</b>    | <b>15726.908</b> | <b>2674.498</b> | <b>18401.406</b> |

VFC IN Million Gallons

**2010 ANNUAL STATEWIDE VFC DISTRIBUTION BY COUNTY**

| COUNTY                 | GASOLINE         | DIESEL          | TOTAL            |
|------------------------|------------------|-----------------|------------------|
| ALAMEDA                | 709.994          | 93.778          | 803.772          |
| ALPINE                 | 3.512            | 0.481           | 3.993            |
| AMADOR                 | 23.936           | 3.693           | 27.629           |
| BUTTE                  | 96.787           | 14.607          | 111.394          |
| CALAVERAS              | 29.710           | 3.676           | 33.386           |
| COLUSA                 | 32.013           | 18.580          | 50.593           |
| CONTRA COSTA           | 445.565          | 50.683          | 496.248          |
| DEL NORTE              | 15.049           | 2.835           | 17.884           |
| EL DORADO              | 99.712           | 11.449          | 111.161          |
| FRESNO                 | 437.382          | 91.843          | 529.225          |
| GLENN                  | 25.790           | 13.925          | 39.716           |
| HUMBOLDT               | 64.029           | 12.292          | 76.321           |
| IMPERIAL               | 88.687           | 27.777          | 116.464          |
| INYO                   | 28.126           | 6.072           | 34.198           |
| KERN                   | 434.839          | 172.640         | 607.480          |
| KINGS                  | 66.896           | 20.869          | 87.765           |
| LAKE                   | 32.667           | 4.229           | 36.896           |
| LASSEN                 | 31.854           | 7.408           | 39.261           |
| LOS ANGELES            | 4577.145         | 610.369         | 5187.514         |
| MADERA                 | 80.243           | 26.687          | 106.929          |
| MARIN                  | 127.388          | 11.352          | 138.740          |
| MARIPOSA               | 15.400           | 1.169           | 16.569           |
| MENDOCINO              | 67.693           | 10.731          | 78.424           |
| MERCED                 | 146.599          | 53.058          | 199.657          |
| MODOC                  | 9.050            | 2.889           | 11.939           |
| MONO                   | 18.128           | 4.494           | 22.622           |
| MONTEREY               | 208.860          | 38.167          | 247.027          |
| NAPA                   | 57.174           | 5.644           | 62.817           |
| NEVADA                 | 68.920           | 11.614          | 80.534           |
| ORANGE                 | 1331.840         | 166.511         | 1498.351         |
| PLACER                 | 177.005          | 28.431          | 205.437          |
| PLUMAS                 | 17.400           | 3.348           | 20.748           |
| RIVERSIDE              | 965.913          | 242.296         | 1208.209         |
| SACRAMENTO             | 623.616          | 95.349          | 718.965          |
| SAN BENITO             | 28.766           | 7.052           | 35.818           |
| SAN BERNARDINO         | 1120.208         | 281.951         | 1402.159         |
| SAN DIEGO              | 1469.471         | 166.495         | 1635.966         |
| SAN FRANCISCO          | 187.083          | 14.113          | 201.197          |
| SAN JOAQUIN            | 333.329          | 103.147         | 436.477          |
| SAN LUIS OBISPO        | 149.281          | 25.284          | 174.565          |
| SAN MATEO              | 374.627          | 33.123          | 407.751          |
| SANTA BARBARA          | 191.397          | 29.374          | 220.771          |
| SANTA CLARA            | 798.205          | 77.473          | 875.678          |
| SANTA CRUZ             | 111.638          | 9.325           | 120.963          |
| SHASTA                 | 109.963          | 32.982          | 142.944          |
| SIERRA                 | 4.995            | 1.681           | 6.676            |
| SISKIYOU               | 41.874           | 22.551          | 64.425           |
| SOLANO                 | 253.099          | 40.984          | 294.083          |
| SONOMA                 | 197.617          | 24.657          | 222.274          |
| STANISLAUS             | 240.855          | 52.891          | 293.746          |
| SUTTER                 | 53.899           | 9.139           | 63.039           |
| TEHAMA                 | 44.697           | 18.124          | 62.821           |
| TRINITY                | 8.632            | 2.802           | 11.434           |
| TULARE                 | 195.626          | 65.647          | 261.273          |
| TUOLUMNE               | 32.308           | 4.068           | 36.376           |
| VENTURA                | 360.959          | 47.710          | 408.669          |
| YOLO                   | 112.999          | 30.735          | 143.734          |
| YUBA                   | 39.156           | 5.336           | 44.492           |
| <b>TOTAL</b>           | <b>17619.604</b> | <b>2975.592</b> | <b>20595.196</b> |
| VFC in Million Gallons |                  |                 |                  |

**2015 ANNUAL STATEWIDE VFC DISTRIBUTION BY COUNTY**

| COUNTY          | GASOLINE         | DIESEL          | TOTAL            |
|-----------------|------------------|-----------------|------------------|
| ALAMEDA         | 746.228          | 96.692          | 842.920          |
| ALPINE          | 3.913            | 0.526           | 4.439            |
| AMADOR          | 27.959           | 4.233           | 32.192           |
| BUTTE           | 106.513          | 15.769          | 122.282          |
| CALAVERAS       | 36.483           | 4.429           | 40.913           |
| COLUSA          | 36.279           | 20.698          | 56.978           |
| CONTRA COSTA    | 479.495          | 53.496          | 532.992          |
| DEL NORTE       | 17.351           | 3.208           | 20.559           |
| EL DORADO       | 112.896          | 12.716          | 125.612          |
| FRESNO          | 510.051          | 105.062         | 615.114          |
| GLENN           | 29.047           | 15.413          | 44.460           |
| HUMBOLDT        | 67.700           | 12.754          | 80.454           |
| IMPERIAL        | 98.545           | 30.301          | 128.847          |
| INYO            | 30.838           | 6.537           | 37.375           |
| KERN            | 506.327          | 197.386         | 703.713          |
| KINGS           | 76.098           | 23.302          | 99.401           |
| LAKE            | 37.451           | 4.756           | 42.207           |
| LASSEN          | 34.095           | 7.782           | 41.877           |
| LOS ANGELES     | 4933.041         | 645.313         | 5578.354         |
| MADERA          | 92.215           | 30.117          | 122.332          |
| MARIN           | 128.361          | 11.218          | 139.579          |
| MARIPOSA        | 17.417           | 1.295           | 18.712           |
| MENDOCINO       | 74.683           | 11.616          | 86.299           |
| MERCED          | 169.932          | 60.391          | 230.323          |
| MODOC           | 9.727            | 3.048           | 12.775           |
| MONO            | 20.598           | 5.014           | 25.612           |
| MONTEREY        | 229.647          | 41.174          | 270.821          |
| NAPA            | 60.464           | 5.854           | 66.318           |
| NEVADA          | 78.775           | 13.025          | 91.800           |
| ORANGE          | 1406.087         | 172.449         | 1578.536         |
| PLACER          | 200.434          | 31.581          | 232.015          |
| PLUMAS          | 18.363           | 3.467           | 21.831           |
| RIVERSIDE       | 1141.881         | 281.117         | 1422.999         |
| SACRAMENTO      | 689.997          | 103.486         | 793.483          |
| SAN BENITO      | 33.237           | 8.000           | 41.237           |
| SAN BERNARDINO  | 1303.200         | 321.920         | 1625.120         |
| SAN DIEGO       | 1600.054         | 177.806         | 1777.859         |
| SAN FRANCISCO   | 191.127          | 14.137          | 205.265          |
| SAN JOAQUIN     | 377.944          | 114.804         | 492.748          |
| SAN LUIS OBISPO | 163.109          | 27.110          | 190.219          |
| SAN MATEO       | 391.520          | 33.948          | 425.467          |
| SANTA BARBARA   | 204.877          | 30.849          | 235.726          |
| SANTA CLARA     | 841.644          | 80.111          | 921.755          |
| SANTA CRUZ      | 119.927          | 9.823           | 129.750          |
| SHASTA          | 121.396          | 35.739          | 157.136          |
| SIERRA          | 5.217            | 1.724           | 6.942            |
| SISKIYOU        | 44.746           | 23.679          | 68.425           |
| SOLANO          | 278.969          | 44.327          | 323.296          |
| SONOMA          | 212.211          | 25.974          | 238.185          |
| STANISLAUS      | 278.957          | 60.101          | 339.058          |
| SUTTER          | 64.233           | 10.685          | 74.918           |
| TEHAMA          | 48.591           | 19.351          | 67.943           |
| TRINITY         | 9.266            | 2.955           | 12.220           |
| TULARE          | 221.950          | 73.117          | 295.068          |
| TUOLUMNE        | 36.509           | 4.510           | 41.019           |
| VENTURA         | 393.148          | 50.978          | 444.126          |
| YOLO            | 127.993          | 34.173          | 162.166          |
| YUBA            | 44.852           | 5.995           | 50.848           |
| <b>TOTAL</b>    | <b>19343.568</b> | <b>3247.045</b> | <b>22590.613</b> |

VFC in Million Gallons

**2020 ANNUAL STATEWIDE VFC DISTRIBUTION BY COUNTY**

| COUNTY          | GASOLINE         | DIESEL          | TOTAL            |
|-----------------|------------------|-----------------|------------------|
| ALAMEDA         | 779.543          | 99.579          | 879.122          |
| ALPINE          | 4.333            | 0.575           | 4.907            |
| AMADOR          | 32.460           | 4.846           | 37.306           |
| BUTTE           | 116.509          | 17.003          | 133.512          |
| CALAVERAS       | 44.529           | 5.331           | 49.860           |
| COLUSA          | 40.868           | 23.023          | 63.891           |
| CONTRA COSTA    | 512.876          | 56.403          | 569.279          |
| DEL NORTE       | 19.884           | 3.626           | 23.510           |
| EL DORADO       | 127.048          | 14.108          | 141.155          |
| FRESNO          | 591.214          | 120.026         | 711.240          |
| GLENN           | 32.520           | 17.033          | 49.553           |
| HUMBOLDT        | 71.148           | 13.216          | 84.364           |
| IMPERIAL        | 108.838          | 33.008          | 141.846          |
| INYO            | 33.605           | 7.027           | 40.632           |
| KERN            | 586.031          | 225.350         | 811.381          |
| KINGS           | 86.047           | 25.983          | 112.029          |
| LAKE            | 42.674           | 5.343           | 48.017           |
| LASSEN          | 36.274           | 8.164           | 44.438           |
| LOS ANGELES     | 5284.414         | 681.462         | 5965.876         |
| MADERA          | 105.334          | 33.941          | 139.274          |
| MARIN           | 128.555          | 11.074          | 139.629          |
| MARIPOSA        | 19.579           | 1.435           | 21.013           |
| MENDOCINO       | 81.894           | 12.559          | 94.453           |
| MERCED          | 195.793          | 68.639          | 264.431          |
| MODOC           | 10.391           | 3.212           | 13.603           |
| MONO            | 23.261           | 5.587           | 28.848           |
| MONTEREY        | 250.972          | 44.362          | 295.335          |
| NAPA            | 63.554           | 6.066           | 69.620           |
| NEVADA          | 89.493           | 14.588          | 104.080          |
| ORANGE          | 1475.474         | 178.394         | 1653.869         |
| PLACER          | 225.587          | 35.036          | 260.623          |
| PLUMAS          | 19.262           | 3.587           | 22.849           |
| RIVERSIDE       | 1341.751         | 325.710         | 1667.461         |
| SACRAMENTO      | 758.829          | 112.179         | 871.009          |
| SAN BENITO      | 38.171           | 9.062           | 47.233           |
| SAN BERNARDINO  | 1506.920         | 367.048         | 1873.968         |
| SAN DIEGO       | 1731.658         | 189.674         | 1921.332         |
| SAN FRANCISCO   | 194.075          | 14.149          | 208.224          |
| SAN JOAQUIN     | 425.949          | 127.598         | 553.547          |
| SAN LUIS OBISPO | 177.135          | 29.031          | 206.166          |
| SAN MATEO       | 406.677          | 34.757          | 441.435          |
| SANTA BARBARA   | 217.973          | 32.359          | 250.332          |
| SANTA CLARA     | 882.060          | 82.753          | 964.813          |
| SANTA CRUZ      | 128.050          | 10.337          | 138.387          |
| SHASTA          | 133.211          | 38.673          | 171.884          |
| SIERRA          | 5.416            | 1.766           | 7.183            |
| SISKIYOU        | 47.530           | 24.826          | 72.356           |
| SOLANO          | 305.612          | 47.882          | 353.493          |
| SONOMA          | 226.502          | 27.330          | 253.832          |
| STANISLAUS      | 321.142          | 68.203          | 389.345          |
| SUTTER          | 76.083           | 12.477          | 88.560           |
| TEHAMA          | 52.508           | 20.631          | 73.139           |
| TRINITY         | 9.886            | 3.111           | 12.997           |
| TULARE          | 250.306          | 81.322          | 331.628          |
| TUOLUMNE        | 41.007           | 4.994           | 46.000           |
| VENTURA         | 425.608          | 54.406          | 480.013          |
| YOLO            | 144.100          | 37.942          | 182.042          |
| YUBA            | 51.065           | 6.729           | 57.794           |
| <b>TOTAL</b>    | <b>21139.189</b> | <b>3544.533</b> | <b>24683.722</b> |

VFC in Million Gallons

|       |           |          |           |
|-------|-----------|----------|-----------|
| TOTAL | 15726.908 | 2674.498 | 18401.406 |
|-------|-----------|----------|-----------|

VFC IN Million Gallons

#### 2010 ANNUAL STATEWIDE VFC DISTRIBUTION BY COUNTY

| COUNTY          | GASOLINE | DIESEL  | TOTAL    |
|-----------------|----------|---------|----------|
| ALAMEDA         | 709.994  | 93.778  | 803.772  |
| ALPINE          | 3.512    | 0.481   | 3.993    |
| AMADOR          | 23.936   | 3.693   | 27.629   |
| BUTTE           | 96.787   | 14.607  | 111.394  |
| CALAVERAS       | 29.710   | 3.676   | 33.386   |
| COLUSA          | 32.013   | 18.580  | 50.593   |
| CONTRA COSTA    | 445.565  | 50.683  | 496.248  |
| DEL NORTE       | 15.049   | 2.835   | 17.884   |
| EL DORADO       | 99.712   | 11.449  | 111.161  |
| FRESNO          | 437.382  | 91.843  | 529.225  |
| GLENN           | 25.790   | 13.925  | 39.716   |
| HUMBOLDT        | 64.029   | 12.292  | 76.321   |
| IMPERIAL        | 88.687   | 27.777  | 116.464  |
| INYO            | 28.126   | 6.072   | 34.198   |
| KERN            | 434.839  | 172.640 | 607.480  |
| KINGS           | 66.896   | 20.869  | 87.765   |
| LAKE            | 32.667   | 4.229   | 36.896   |
| LASSEN          | 31.854   | 7.408   | 39.261   |
| LOS ANGELES     | 4577.145 | 610.369 | 5187.514 |
| MADERA          | 80.243   | 26.687  | 106.929  |
| MARIN           | 127.388  | 11.352  | 138.740  |
| MARIPOSA        | 15.400   | 1.169   | 16.569   |
| MENDOCINO       | 67.693   | 10.731  | 78.424   |
| MERCED          | 146.599  | 53.058  | 199.657  |
| MODOC           | 9.050    | 2.889   | 11.939   |
| MONO            | 18.128   | 4.494   | 22.622   |
| MONTEREY        | 208.860  | 38.167  | 247.027  |
| NAPA            | 57.174   | 5.644   | 62.817   |
| NEVADA          | 68.920   | 11.614  | 80.534   |
| ORANGE          | 1331.840 | 166.511 | 1498.351 |
| PLACER          | 177.005  | 28.431  | 205.437  |
| PLUMAS          | 17.400   | 3.348   | 20.748   |
| RIVERSIDE       | 965.913  | 242.296 | 1208.209 |
| SACRAMENTO      | 623.616  | 95.349  | 718.965  |
| SAN BENITO      | 28.766   | 7.052   | 35.818   |
| SAN BERNARDINO  | 1120.208 | 281.951 | 1402.159 |
| SAN DIEGO       | 1469.471 | 166.495 | 1635.966 |
| SAN FRANCISCO   | 187.083  | 14.113  | 201.197  |
| SAN JOAQUIN     | 333.329  | 103.147 | 436.477  |
| SAN LUIS OBISPO | 149.281  | 25.284  | 174.565  |
| SAN MATEO       | 374.627  | 33.123  | 407.751  |
| SANTA BARBARA   | 191.397  | 29.374  | 220.771  |
| SANTA CLARA     | 798.205  | 77.473  | 875.678  |
| SANTA CRUZ      | 111.638  | 9.325   | 120.963  |
| SHASTA          | 109.963  | 32.982  | 142.944  |
| SIERRA          | 4.995    | 1.681   | 6.676    |
| SISKIYOU        | 41.874   | 22.551  | 64.425   |
| SOLANO          | 253.099  | 40.984  | 294.083  |
| SONOMA          | 197.617  | 24.657  | 222.274  |
| STANISLAUS      | 240.855  | 52.891  | 293.746  |
| SUTTER          | 53.899   | 9.139   | 63.039   |
| TEHAMA          | 44.697   | 18.124  | 62.821   |
| TRINITY         | 8.632    | 2.802   | 11.434   |
| TULARE          | 195.626  | 65.647  | 261.273  |
| TUOLUMNE        | 32.308   | 4.068   | 36.376   |
| VENTURA         | 360.959  | 47.710  | 408.669  |

|                        |                  |                 |                  |
|------------------------|------------------|-----------------|------------------|
| YOLO                   | 112.999          | 30.735          | 143.734          |
| YUBA                   | 39.156           | 5.336           | 44.492           |
| <b>TOTAL</b>           | <b>17619.604</b> | <b>2975.592</b> | <b>20595.196</b> |
| VFC in Million Gallons |                  |                 |                  |

**2015 ANNUAL STATEWIDE VFC DISTRIBUTION BY COUNTY**

| COUNTY          | GASOLINE | DIESEL  | TOTAL    |
|-----------------|----------|---------|----------|
| ALAMEDA         | 746.228  | 96.692  | 842.920  |
| ALPINE          | 3.913    | 0.526   | 4.439    |
| AMADOR          | 27.959   | 4.233   | 32.192   |
| BUTTE           | 106.513  | 15.769  | 122.282  |
| CALAVERAS       | 36.483   | 4.429   | 40.913   |
| COLUSA          | 36.279   | 20.698  | 56.978   |
| CONTRA COSTA    | 479.495  | 53.496  | 532.992  |
| DEL NORTE       | 17.351   | 3.208   | 20.559   |
| EL DORADO       | 112.896  | 12.716  | 125.612  |
| FRESNO          | 510.051  | 105.062 | 615.114  |
| GLENN           | 29.047   | 15.413  | 44.460   |
| HUMBOLDT        | 67.700   | 12.754  | 80.454   |
| IMPERIAL        | 98.545   | 30.301  | 128.847  |
| INYO            | 30.838   | 6.537   | 37.375   |
| KERN            | 506.327  | 197.386 | 703.713  |
| KINGS           | 76.098   | 23.302  | 99.401   |
| LAKE            | 37.451   | 4.756   | 42.207   |
| LASSEN          | 34.095   | 7.782   | 41.877   |
| LOS ANGELES     | 4933.041 | 645.313 | 5578.354 |
| MADERA          | 92.215   | 30.117  | 122.332  |
| MARIN           | 128.361  | 11.218  | 139.579  |
| MARIPOSA        | 17.417   | 1.295   | 18.712   |
| MENDOCINO       | 74.683   | 11.616  | 86.299   |
| MERCED          | 169.932  | 60.391  | 230.323  |
| MODOC           | 9.727    | 3.048   | 12.775   |
| MONO            | 20.598   | 5.014   | 25.612   |
| MONTEREY        | 229.647  | 41.174  | 270.821  |
| NAPA            | 60.464   | 5.854   | 66.318   |
| NEVADA          | 78.775   | 13.025  | 91.800   |
| ORANGE          | 1406.087 | 172.449 | 1578.536 |
| PLACER          | 200.434  | 31.581  | 232.015  |
| PLUMAS          | 18.363   | 3.467   | 21.831   |
| RIVERSIDE       | 1141.881 | 281.117 | 1422.999 |
| SACRAMENTO      | 689.997  | 103.486 | 793.483  |
| SAN BENITO      | 33.237   | 8.000   | 41.237   |
| SAN BERNARDINO  | 1303.200 | 321.920 | 1625.120 |
| SAN DIEGO       | 1600.054 | 177.806 | 1777.859 |
| SAN FRANCISCO   | 191.127  | 14.137  | 205.265  |
| SAN JOAQUIN     | 377.944  | 114.804 | 492.748  |
| SAN LUIS OBISPO | 163.109  | 27.110  | 190.219  |
| SAN MATEO       | 391.520  | 33.948  | 425.467  |
| SANTA BARBARA   | 204.877  | 30.849  | 235.726  |
| SANTA CLARA     | 841.644  | 80.111  | 921.755  |
| SANTA CRUZ      | 119.927  | 9.823   | 129.750  |
| SHASTA          | 121.396  | 35.739  | 157.136  |
| SIERRA          | 5.217    | 1.724   | 6.942    |
| SISKIYOU        | 44.746   | 23.679  | 68.425   |
| SOLANO          | 278.969  | 44.327  | 323.296  |
| SONOMA          | 212.211  | 25.974  | 238.185  |
| STANISLAUS      | 278.957  | 60.101  | 339.058  |
| SUTTER          | 64.233   | 10.685  | 74.918   |
| TEHAMA          | 48.591   | 19.351  | 67.943   |
| TRINITY         | 9.266    | 2.955   | 12.220   |
| TULARE          | 221.950  | 73.117  | 295.068  |

|              |                  |                 |                  |
|--------------|------------------|-----------------|------------------|
| TUOLUMNE     | 36.509           | 4.510           | 41.019           |
| VENTURA      | 393.148          | 50.978          | 444.126          |
| YOLO         | 127.993          | 34.173          | 162.166          |
| YUBA         | 44.852           | 5.995           | 50.848           |
| <b>TOTAL</b> | <b>19343.568</b> | <b>3247.045</b> | <b>22590.613</b> |

VFC in Million Gallons

#### 2020 ANNUAL STATEWIDE VFC DISTRIBUTION BY COUNTY

| COUNTY          | GASOLINE | DIESEL  | TOTAL    |
|-----------------|----------|---------|----------|
| ALAMEDA         | 779.543  | 99.579  | 879.122  |
| ALPINE          | 4.333    | 0.575   | 4.907    |
| AMADOR          | 32.460   | 4.846   | 37.306   |
| BUTTE           | 116.509  | 17.003  | 133.512  |
| CALAVERAS       | 44.529   | 5.331   | 49.860   |
| COLUSA          | 40.868   | 23.023  | 63.891   |
| CONTRA COSTA    | 512.876  | 56.403  | 569.279  |
| DEL NORTE       | 19.884   | 3.626   | 23.510   |
| EL DORADO       | 127.048  | 14.108  | 141.155  |
| FRESNO          | 591.214  | 120.026 | 711.240  |
| GLENN           | 32.520   | 17.033  | 49.553   |
| HUMBOLDT        | 71.148   | 13.216  | 84.364   |
| IMPERIAL        | 108.838  | 33.008  | 141.846  |
| INYO            | 33.605   | 7.027   | 40.632   |
| KERN            | 586.031  | 225.350 | 811.381  |
| KINGS           | 86.047   | 25.983  | 112.029  |
| LAKE            | 42.674   | 5.343   | 48.017   |
| LASSEN          | 36.274   | 8.164   | 44.438   |
| LOS ANGELES     | 5284.414 | 681.462 | 5965.876 |
| MADERA          | 105.334  | 33.941  | 139.274  |
| MARIN           | 128.555  | 11.074  | 139.629  |
| MARIPOSA        | 19.579   | 1.435   | 21.013   |
| MENDOCINO       | 81.894   | 12.559  | 94.453   |
| MERCED          | 195.793  | 68.639  | 264.431  |
| MODOC           | 10.391   | 3.212   | 13.603   |
| MONO            | 23.261   | 5.587   | 28.848   |
| MONTEREY        | 250.972  | 44.362  | 295.335  |
| NAPA            | 63.554   | 6.066   | 69.620   |
| NEVADA          | 89.493   | 14.588  | 104.080  |
| ORANGE          | 1475.474 | 178.394 | 1653.869 |
| PLACER          | 225.587  | 35.036  | 260.623  |
| PLUMAS          | 19.262   | 3.587   | 22.849   |
| RIVERSIDE       | 1341.751 | 325.710 | 1667.461 |
| SACRAMENTO      | 758.829  | 112.179 | 871.009  |
| SAN BENITO      | 38.171   | 9.062   | 47.233   |
| SAN BERNARDINO  | 1506.920 | 367.048 | 1873.968 |
| SAN DIEGO       | 1731.658 | 189.674 | 1921.332 |
| SAN FRANCISCO   | 194.075  | 14.149  | 208.224  |
| SAN JOAQUIN     | 425.949  | 127.598 | 553.547  |
| SAN LUIS OBISPO | 177.135  | 29.031  | 206.166  |
| SAN MATEO       | 406.677  | 34.757  | 441.435  |
| SANTA BARBARA   | 217.973  | 32.359  | 250.332  |
| SANTA CLARA     | 882.060  | 82.753  | 964.813  |
| SANTA CRUZ      | 128.050  | 10.337  | 138.387  |
| SHASTA          | 133.211  | 38.673  | 171.884  |
| SIERRA          | 5.416    | 1.766   | 7.183    |
| SISKIYOU        | 47.530   | 24.826  | 72.356   |
| SOLANO          | 305.612  | 47.882  | 353.493  |
| SONOMA          | 226.502  | 27.330  | 253.832  |
| STANISLAUS      | 321.142  | 68.203  | 389.345  |
| SUTTER          | 76.083   | 12.477  | 88.560   |

|              |                  |                 |                  |
|--------------|------------------|-----------------|------------------|
| TEHAMA       | 52.508           | 20.631          | 73.139           |
| TRINITY      | 9.886            | 3.111           | 12.997           |
| TULARE       | 250.306          | 81.322          | 331.628          |
| TUOLUMNE     | 41.007           | 4.994           | 46.000           |
| VENTURA      | 425.608          | 54.406          | 480.013          |
| YOLO         | 144.100          | 37.942          | 182.042          |
| YUBA         | 51.065           | 6.729           | 57.794           |
| <b>TOTAL</b> | <b>21139.189</b> | <b>3544.533</b> | <b>24683.722</b> |

VFC in Million Gallons